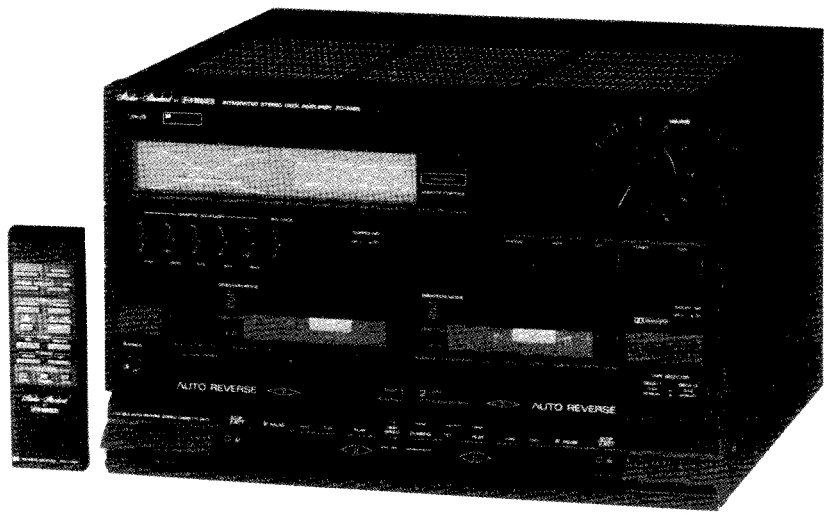
SERVICE MANUAL

FISHER

INTEGRATED STEREO DECK AMPLIFIER WITH WIRELESS REMOTE CONTROL REM-85

PD-M85

(EUROPE/SPAIN)



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SPECIFICATIONS

Remote Control (REM-M85) ..... 15-function, wireless remote control

Power Amplifier Section
Minimum RMS sine wave power per channel within stated bandwidth at no more than stated distortion and with 6-ohm load ..... 45 W
Power Bandwidth ..... 40 Hz – 20 kHz
Total Harmonic Distortion ..... 0.9 %
Speaker Damping ..... > 20

Pre Amplifier Section
Input Sensitivity and Impedance
- Phono 2.5mV/50kΩ
- AUX/Tuner 180mV/50kΩ
- CD 180mV/50kΩ

Phono Max. Input Capability 100mV

Graphic Equalizer
- 63 Hz ..... ±10 dB
- 250 Hz ..... ±10 dB
- 1 kHz ..... ±10 dB
- 4 kHz ..... ±10 dB
- 16 kHz ..... ±10 dB

Cassette Tape Deck Section
Wow and Flutter (WRMS) 0.1%
Channel Separation ..... 30 dB
Frequency Response (Fe_2O_3) ..... 50 Hz – 13 kHz

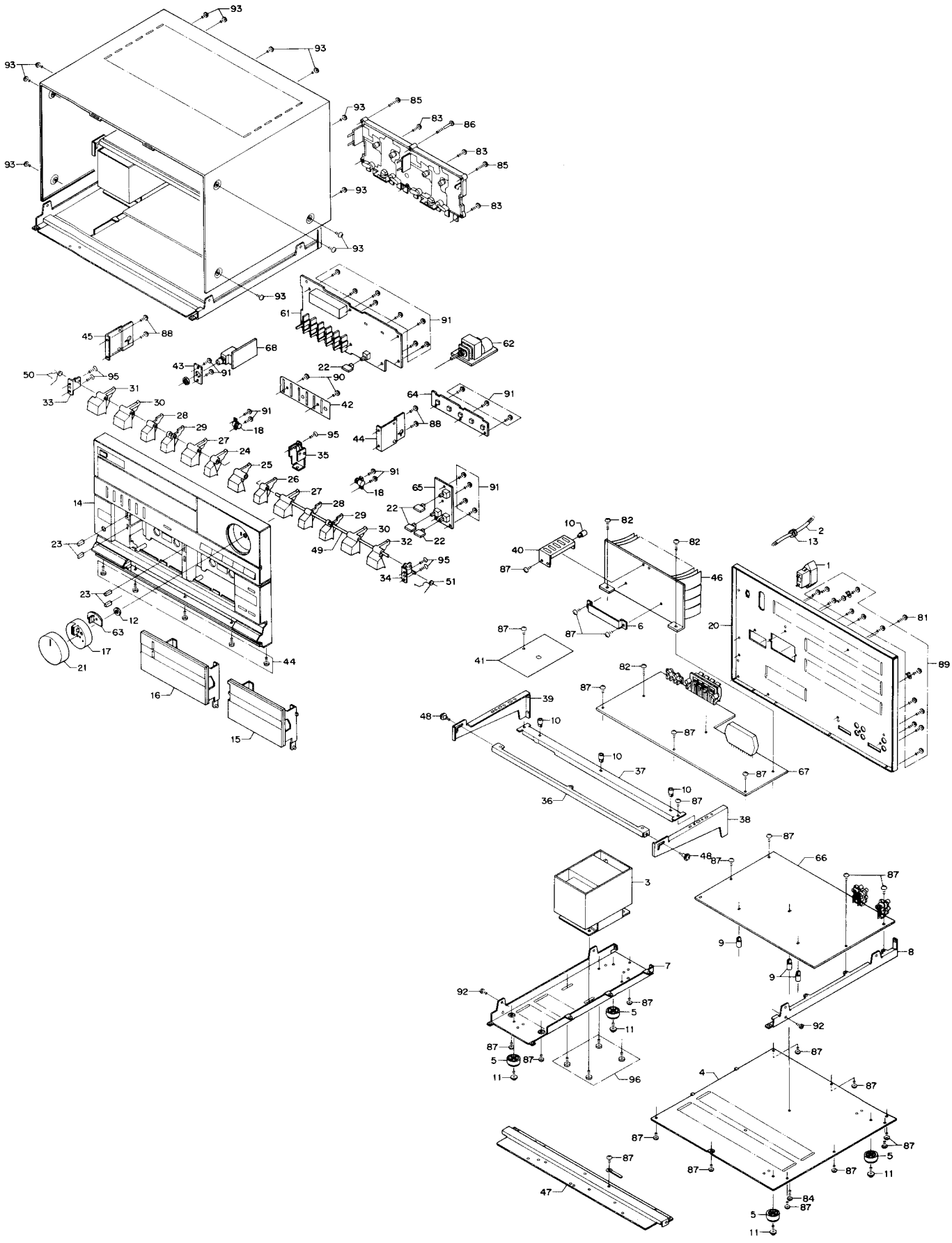
General
Power Requirements ..... AC 220V
(50 Hz) ..... 235 W
Dimensions (WxHxD) ..... 360 x 234 x 300 mm
Weight (approx.) ..... 7.7 kg

Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

– Specifications and design are subject to change without notice. –

REFERENCE No. WM-570055

CABINET & CHASSIS EXPLODED VIEW



CABINET/CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKAGE			
	620 059 7333	Patching Sheet	1
	620 189 5049	Box Corrugate-Exp.	1
	620 148 3918	Pad (Left)	1
	620 148 3925	Pad (Right)	1
	620 148 6131	Poly Cover (AC Cord)	1
	620 148 8012	Sheet Polyethylene	1
	620 062 0543	Serial No. Sheet	2
ACCESSORIES			
	620 190 2556	REM-M85 (Remote Control)	1
	620 057 8783	Bag Fan	1
	620 152 2624	Certificate Card	1
	620 190 2792	Explanatory Booklet	1
	620 062 0543	Serial No. Sheet	1
CABINET			
	620 192 2028	Connector 1P Assy	1
	620 017 3629	Connector 1P Assy	1
	620 022 3454	Terminal Lug	4
	620 022 3461	Terminal Lug	2
	620 050 3259	Cramp Wire	20
	620 125 8110	Lug	1
	620 125 8424	Wire Band	13
	620 152 7452	Serial No. Sheet	1
	403 069 8404	CERAMIC 0.01U Z 50V [C51]	1
	403 069 8404	CERAMIC 0.01U Z 50V [C52]	1
1 ⚠	620 017 1212	AC Socket	1
2 ⚠	620 023 7550	Power Cord	1
3 ⚠	620 191 0766	Power Trans	1
4	620 039 7544	Plate Bottom	1
5	620 047 3873	Leg	4
6	620 048 2608	Metal Mount (IC)	1
7	620 048 7504	Chassis (Left)	1
8	620 048 7511	Chassis (Right)	1
9	620 050 4409	Mount P.C.B	3
10	620 050 4539	Mount P.C.B	4
11	620 051 3708	Screw, Braz. Hd. Tapping-B, +M3.0X8	4
12	620 051 4903	NUT	1
13	620 053 2136	Bushing (Power Cord)	1
14	620 189 1621	Cabinet Front Assy	1
15	620 189 3939	Lid Cassette (Right) Assy	1
16	620 189 3946	Lid Cassette (Left) Assy	1
17	620 075 2725	Knob Volume Assy	1
18	620 083 1789	Gear Eject Assy	2
19	620 192 1274	Cover	1
20	620 189 3502	Panel Rear	1
21	620 108 6287	Knob (VOLUME)	1
22	620 111 6519	Knob (SURROUND/DOLBY NR/ TAPE SELECTOR)	4
23	620 112 0011	Knob (DIRECTION MODE/DIRECTION)	4
24	620 112 0028	Knob (REC)	1
25	620 112 0035	Knob (DUBBING)	1
26	620 112 0042	Knob (HIGH-SPEED)	1
27	620 112 0059	Knob (PLAY)	2
28	620 112 0066	Knob (REW)	2
29	620 112 0073	Knob (F FWD)	2
30	620 112 0080	Knob (PAUSE)	2
31	620 112 0097	Knob (STOP/EJECT) A	1
32	620 112 0103	Knob (STOP/EJECT) B	1
33	620 115 4429	Bracket Button A	1
34	620 115 4481	Bracket Button C	1
35	620 189 1850	Bracket Button	1
36	620 117 6780	Bracket-P.C.B. Power	1
37	620 189 1867	Bracket-Power Amplifier P.C.B.	1
38	620 189 1874	Bracket (Right)	1
39	620 189 1881	Bracket (Left)	1
40	620 189 1898	Bracket-Heat Sink	1
41	620 190 0101	Plate Shield	1
42	620 191 8540	Plate Shield	1
43	620 119 1721	Metal Mount	1
44	620 119 2247	Metal Mount (Right)	1
45	620 119 2254	Metal Mount (Left)	1
46	620 189 6244	Plate Heat Sink	1
47	620 189 1959	Chassis Front	1
48	620 122 6423	Screw, w/Washer +M2.6X5.0	2
49	620 129 3524	Spindle Button	1
50	620 192 2172	Spring Lid Cassette (Left)	1
51	620 192 2189	Spring Lid Cassette (Right)	1

Ref. No.	Part No.	Description	Q'ty
61	620 190 9920	Front Control P.C.B. Assy	1
62	620 190 9937	Volume P.C.B. Assy	1
63	620 190 9944	Volume IND P.C.B. Assy	1
64	620 190 9951	Function Switch P.C.B. Assy	1
65	620 190 9968	Dolby Switch P.C.B. Assy	1
66	620 190 9975	Tape PRE Amplifier P.C.B. Assy	1
67	620 190 9982	Power Amplifier P.C.B. Assy	1
68	620 190 9999	Headphone P.C.B. Assy	1
81	411 020 6208	SCR S-TPG BRZ 3X12	1
82	411 020 6604	SCR S-TPG BRZ 3X14	3
83	411 020 6703	SCR S-TPG BRZ 3X16	3
84	411 020 7007	SCR S-TPG BRZ 3X20	1
85	411 020 7205	SCR S-TPG BRZ 3X25	2
86	411 110 1007	SCR S-TPG BRZ 3X35	1
87	411 020 7700	SCR S-TPG BRZ 3X6	24
88	411 020 8004	SCR S-TPG BRZ 3X8	4
89	411 099 9803	SCR S-TPG BRZ 3X8	14
90	411 021 2704	SCR S-TPG BIN 2.6X6	2
91	411 021 3107	SCR S-TPG BIN 2.6X8	21
92	411 021 5705	SCR S-TPG BIN 3X6	2
93	411 021 5903	SCR S-TPG BIN 3X6	12
94	411 021 6603	SCR S-TPG BIN 3X8	5
95	411 022 2802	SCR S-TPG FLT 3X10	5
96	411 024 8406	SCR S-TPG TRS 4X8	4

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

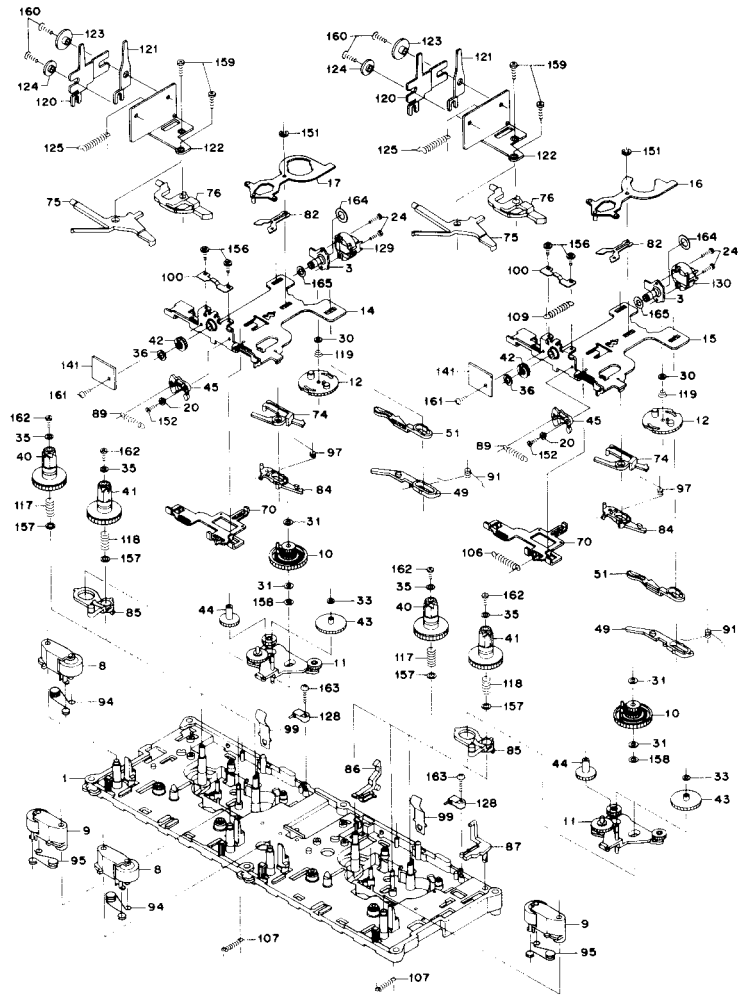
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CASSETTE DECK MECHANISM PARTS LIST & EXPLODED VIEW

Ref. No.	Part No.	Description	Q'ty
MECHANISM			
	620 191 0728	Connector 2P Assy [CA1]	1
	620 017 5968	Connector 3P Assy [CA2]	1
	620 191 0698	Connector 6P Assy [CA3]	1
	620 125 8103	Lug	1
	620 125 8424	Wire Band	5
1	620 081 6106	Chassis Assy	1
2	620 185 4534	Bracket Rod Assy	1
3	620 082 2893	Plate Head Assy	2
4	620 082 7324	Flywheel R/P Assy	1
5	620 082 7348	Flywheel PB Assy	1
6	620 082 7355	Flywheel PB Assy	1
7	620 082 7379	Flywheel R/P Assy	1
8	620 083 0607	Pinchroller Assy	2
9	620 083 0614	Pinchroller Assy	2
10	620 083 2755	Friction Assy	2
11	620 083 2816	Gear Complete	2
12	620 083 2830	Gear Power REV Assy	2
13	620 192 5920	Pulley Drive Assy	1
14	620 084 2853	Base Slide PB Assy	1
15	620 084 2860	Base Slide R/P Assy	1
16	620 085 0926	Lever Change Assy	1
17	620 085 0933	Lever Change PB Assy	1
18	620 119 2100	Bracket Motor	1
20	620 119 7532	Spacer Gear REV	2
21	620 122 7277	Screw, w/Washer, +M2.0X6.0	2
22	620 122 8397	Screw, Tapping, +M2.0X6.0	2
23	620 122 9356	Screw, Washer, +M2.6X1.5	2
24	620 123 0550	Screw, Pan Hd., +M1.6X6.0	4
25	620 123 0710	Screw, +M2.0X6.5	1
26	620 123 0826	Screw M1.4 2X5	1
27	620 123 9942	Cushion Motor	2
28	620 124 5530	Cushion	2
29	620 125 3818	Washer, M2.1X4.0X0.125	2
30	620 125 2071	Washer, M1.6X4.0X0.4	2
31	620 125 2163	Washer, M2.1X5.0X0.13	4
32	620 125 3078	Washer, M2.1X3.5X0.25	4
33	620 125 3382	Washer, M1.25X4.0X0.25	2
34	620 125 3894	Washer, M1.6X3.2X0.4	1
35	620 125 4235	Washer, M3.0X4.4X0.25	4
36	620 125 3849	Washer, M4.2X7.0X0.13	2
37	620 125 4938	Washer, M2.1X4.5X0.2	8
38	620 125 6666	E Ring TE-4	4
39	620 126 3749	Pulley Drive	2
40	620 126 6382	Fix Reel Take-up	2
41	620 126 6399	Fix Reel Supply	2
42	620 127 8156	Gear Head	2
43	620 127 9283	Gear Forward Play	2
44	620 127 9344	Gear Rewind Relay	2
45	620 127 9351	Gear Reverse	2
46	620 128 6755	Belt Drive	1
47	620 128 6823	Belt Wind	2
48	620 128 6786	Belt Drive R/P	1
49	620 130 7238	Plate Auto Shut-off	2
50	620 130 7245	Plate Change Record	1
51	620 130 7252	Lever Sensor	2
52	620 130 7436	Rod Stop R/P	1
53	620 130 7450	Rod Dubbing	1
54	620 130 7474	Rod Pause R/P	1
55	620 130 7498	Rod Play R/P	1
56	620 130 7511	Rod Rewind	2
57	620 130 7535	Rod Pause PB	1
58	620 130 7559	Rod Play PB	1
59	620 130 7573	Rod Stop PB	1
60	620 130 7597	Rod F FWD	2
61	620 130 7603	Plate Switch Motor PB	1
62	620 130 7610	Plate Switch Motor R/P	1
63	620 130 7627	Plate Lock PB	1
64	620 130 7634	Plate Lock R/P	1
66	620 130 7672	Rod Record	1
67	620 130 7856	Rod Speed Switch	1
68	620 130 7863	Plate Lock Lid PB	1
69	620 130 7870	Play Lock Lid R/P	1
70	620 130 7993	Plate Change	2
71	620 131 8616	Lutch Pause	2
72	620 131 9439	Lever Auto Shut-off	2
73	620 131 9446	Lever Change Record	1
74	620 131 9453	Lever Change Auto Shut-off	2
75	620 131 9460	Lever Change REV	2

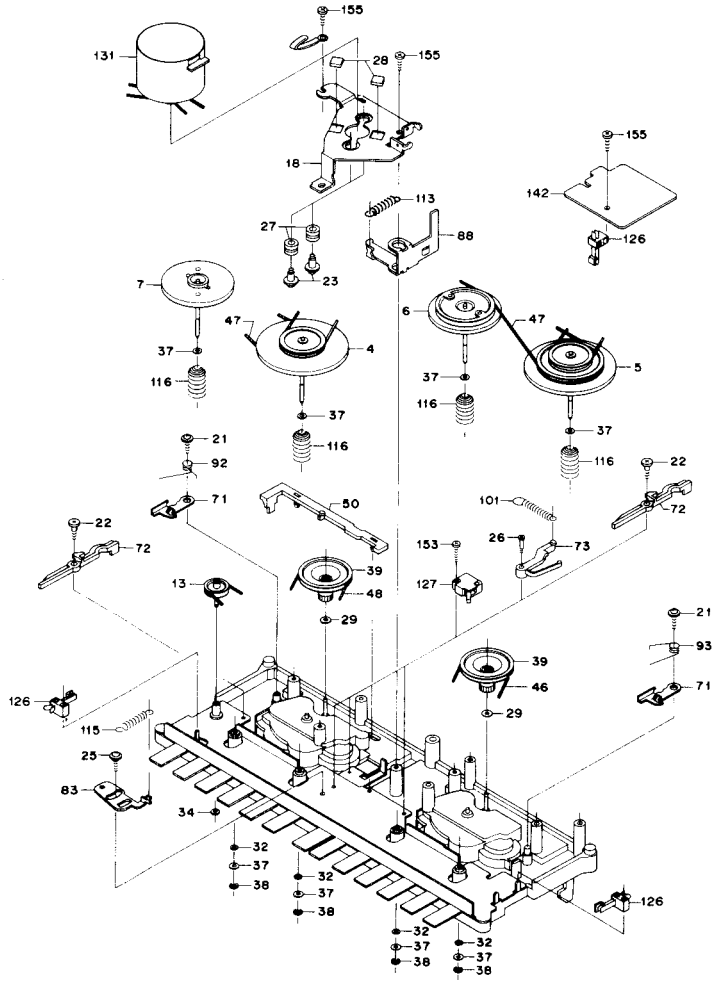
(Chassis Top)



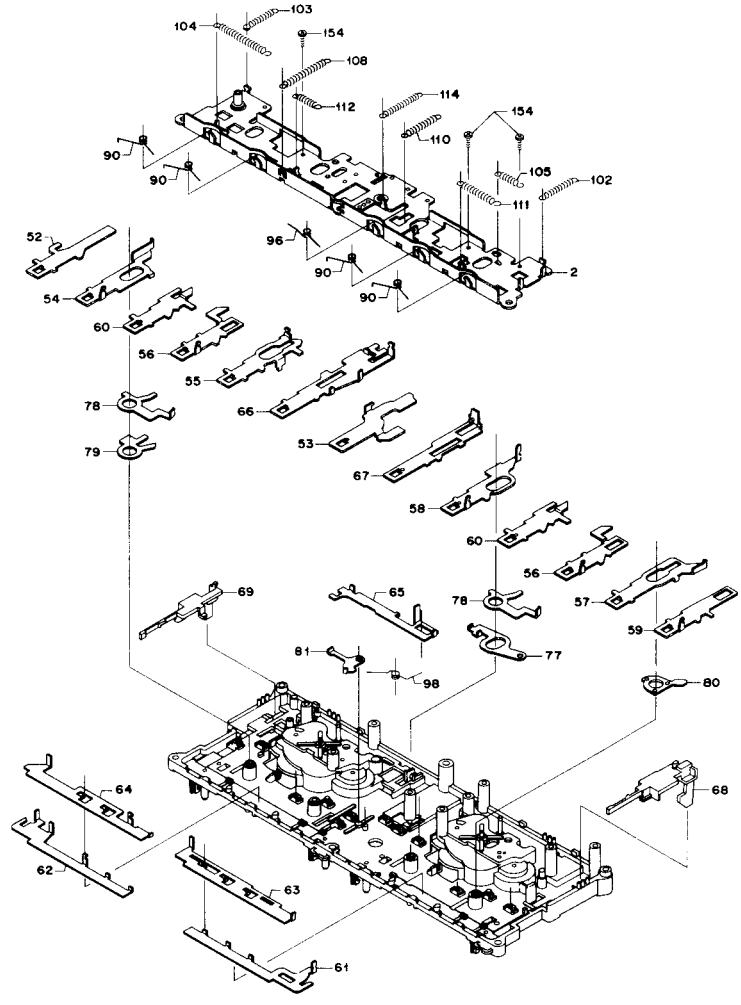
Ref. No.	Part No.	Description	Q'ty
76	620 131 9477	Lever Mode Change	2
77	620 131 9538	Lever Play	1
78	620 131 9545	Lever Cue Reverse	2
79	620 131 9552	Lever Pause R/P	1
80	620 131 9569	Lever Pause PB	1
81	620 131 9576	Lever Stopper Record	1
82	620 131 9583	Lever Change Take-up	2
83	620 131 9606	Lever Dubbing	1
84	620 132 5744	Lever Reverse	2
85	620 132 5751	Lever Arm Gear	2
86	620 136 3852	Interlock Lever	1
87	620 136 4521	Lever Reverse Record	1
88	620 136 4545	Lever R/P Switch	1
89	620 139 1749	Spring Gear REV	2
90	620 137 8979	Spring Rod	4
91	620 137 9600	Spring Lever Sensor	2
92	620 137 9617	Spring Pause Latch R	1
93	620 137 9624	Spring Pause Latch P	1
94	620 137 9631	Spring Pinch Roller REV	2
95	620 137 9648	Spring Pinch Roller FWD	2
96	620 137 9655	Spring Rod Play	1
97	620 137 9662	Spring Change ASO	2
98	620 188 0519	Spring Stopper Record	1
99	620 138 4963	Spring Cassette	2
100	620 138 6769	Spring Azimuth	2
101	620 139 1527	Spring Lever Switch R/P	1
102	620 139 1701	Spring PL Lock Lid PB	1
103	620 139 1718	Spring PL Lock Lid R/P	1
104	620 139 1725	Spring PL Motor Switch R/P	1

CASSETTE DECK MECHANISM PARTS LIST & EXPLODED VIEW

(Chassis Bottom 1)



(Chassis Bottom 2)



Ref. No.	Part No.	Description	Q'ty
105	620 139 1732	Spring PL Motor Switch PB	1
106	620 139 1756	Spring Plate Change	1
107	620 139 1763	Spring Arm Gear	2
108	620 139 1770	Spring Rod Play	1
109	620 139 1787	Spring Base Slide R/P	1
110	620 139 1794	Spring Base Slide PB	1
111	620 139 1800	Spring Plate Lock PB	1
112	620 139 1817	Spring Plate Lock R/P	1
113	620 190 0163	Spring Lever Record	1
114	620 139 1831	Spring Speed Switch	1
115	620 139 1855	Spring Dubbing	1
116	620 139 4467	Spring Flywheel	4
117	620 139 4559	Spring REV Reel	2
118	620 139 4566	Spring FWD Reel	2
119	620 139 4696	Spring	2
120	620 117 6636	Metal Mount Direct	2
121	620 117 6643	Metal Mount Mode	2
122	620 117 6650	Metal Mount Levers	2
123	620 119 7648	Spacer	2
124	620 119 7662	Spacer	2
125	620 139 2036	Spring Direction	2
126	620 016 2630	Leaf Switch [S1] (DECK 1 Mute)	1
126	620 016 2630	Leaf Switch [S2] (DECK 2 Mute)	1
126	620 016 2630	Leaf Switch [S3] (High Speed)	1
127	620 016 7925	Lever Switch 1-2 [S4] (Dubbing)	1
128	620 016 8922	Detector Switch [S5] (DECK 1 Motor)	1
128	620 016 8922	Detector Switch [S6] (DECK 2 Motor)	1
129	620 023 6195	P/B Rotary Head [HD1]	1
130	620 187 4051	RP.E Rotary Head [HD2]	1

Ref. No.	Part No.	Description	Q'ty
131	620 030 4221	Motor [M1]	1
141	620 012 0821	PCB Head	2
142	620 191 0001	Mecha P.C.B. Assy	1
151	411 015 7906	RING E 1.5	2
152	411 017 4804	SCR FLT PCS 1.7X4	2
153	411 021 0205	SCR S-TPG BIN 2X12	1
154	411 021 0809	SCR S-TPG BIN 2X6	3
155	411 021 3107	SCR S-TPG BIN 2.6X8	3
156	412 022 9808	SPECIAL SCREW	4
157	412 023 2303	SPECIAL WASHER	4
158	412 023 2402	SPECIAL WASHER	2
159	411 098 5202	SCR S-TPG PAN 2X5	4
160	411 033 9302	SCR FLT 2.6X5	4
161	411 039 0105	SCR PAN 2X3	2
162	412 025 9201	SPECIAL SCREW	4
163	411 022 8101	SCR S-TPG PAN 2X7	2
164	412 022 4506	SPECIAL WASHER	2
165	412 026 0207	SPECIAL WASHER	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

DOUBLE CASSETTE DECK ELECTRICAL ADJUSTMENT PROCEDURES

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Frequency Counter
- Audio Signal Generator
- Dummy Load (6Ω)
- Test Tapes
  - ‡ 3kHz Test Tape (Example: TEAC MTT-111) for Normal Tape Speed Adjustment
  - ‡ 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
  - ‡ 400Hz Test Tape (Example: TEAC MTT-150) for Playback Sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
  - ‡ Normal Tape (Example: TDK AC 223)

SWITCH POSITIONS

Unless especially indicated, set switch as follows;

DOLBY NR Switch ..... OFF
TAPE SELECTOR ..... NORMAL
FUNCTION Switch ..... TAPE
SURROUND Switch ..... OFF
GRAPHIC EQUALIZER Volume ..... CENTER

TAPE SPEED ADJUSTMENT

1. Connect the dummy load (6Ω) and the frequency counter to the Speaker terminal (Left channel).
2. Load Deck 2 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Adjust VR701 on the Mecha P.C.Board so that the reading on the frequency counter is 3000Hz ~ 3030Hz.
4. Install the test tape (For example: TEAC MTT-111) in Deck 1.
5. Install the test tape (For example: TDK AC 223) in Deck 2.
6. Make sure that frequency counter shows 6000Hz ±30Hz in the high speed dubbing mode.

NOTE:

When adjusting one Deck, set the other Deck to the stop mode.

HEAD AZIMUTH ADJUSTMENT

1. Connect the dualtrace oscilloscope and AC VTVM to the Dolby test point TPDL and TPDR (Left and Right channel) on the Tape PRE Amplifier P.C.Board.

Then, set the dualtrace oscilloscope as follows:

‡ MODE ..... CHOP (chopped)
‡ SOURCE ..... INT (internal), CH1 or CH2
‡ SWEEP MODE ..... AUTO (automatic)

NOTE:

Adjust the field on the oscilloscope with the VOLT. ADJ. and TIME ADJ.

2. Load Deck 2 with a test tape (Example: TEAC MTT-114) and set it in the forward playback mode.
3. Adjust the azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the Right channel wave form overlaps with the Left channel one.
4. Perform the same adjustment for Deck 1.
5. After the adjustment, secure the adjusting screw with paint or glue.

PLAYBACK OUTPUT LEVEL ADJUSTMENT

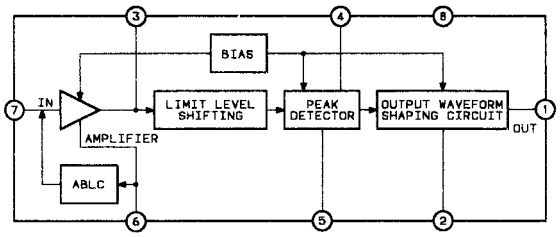
1. Connect the oscilloscope and AC VTVM to the Dolby test point TPDL and TPDR (Left and Right channel) on the Tape PRE Amplifier P.C.Board.
2. Load Deck 2 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
3. Adjust VR203 (left) and VR204 (right) on the Tape PRE Amplifier P.C.Board so that the reading on the AC VTVM is 245mV.
4. Install the test tape (For example: TEAC MTT-150) in Deck 1 and set to the playback mode.
5. Do the same for Deck 2, and adjust VR201 (left) and VR202 (right) Tape PRE Amplifier P.C.Board so that the output is 245mV.

RECORDING BIAS LEVEL ADJUSTMENT

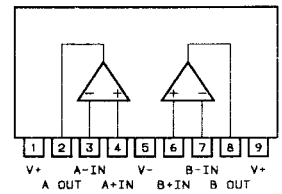
1. Connect the audio signal generator to the Left channel of the AUX input terminal, and the AC VTVM to the Dolby test point TPDL and TPDR (Left and Right channel) on the Tape PRE Amplifier P.C.Board.
2. Load Deck 2 with a normal tape (Example: TDK AC223) and set it in the recording mode.
3. Function switch to the AUX position.
4. Set the Input Level ATT so that the output level becomes 13mV and feed the signals of 1kHz and 10kHz from the audio signal generator into the unit. Then, record the signals on the tape.
5. Playback the recorded signals and adjust potentiometer VR205 for the Left channel, so that the difference in output of the 1kHz and 10kHz signals become ±1dB.
6. Adjust potentiometer VR206 for the Right channel by following the same procedures as described for the Left channel.

IC BLOCK DIAGRAM

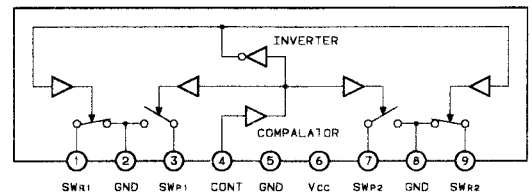
UPC1473HA BLOCK DIAGRAM



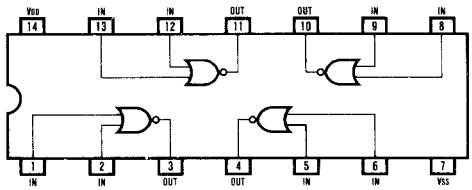
LA6458S BLOCK DIAGRAM



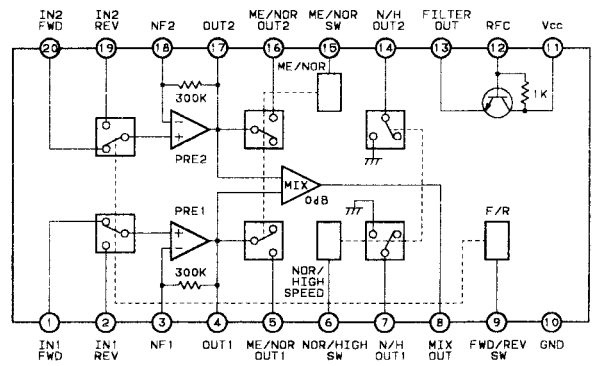
UPC1330HA BLOCK DIAGRAM



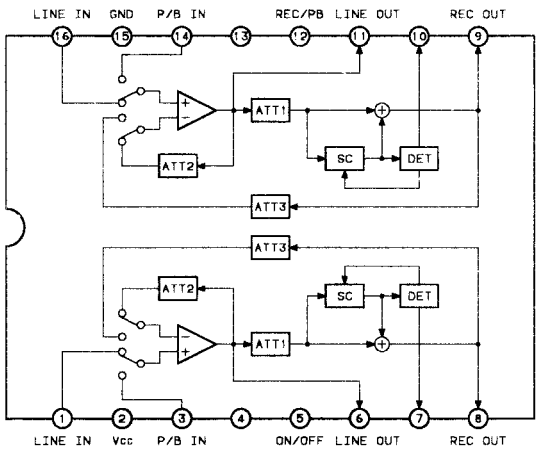
LC4001B BLOCK DIAGRAM



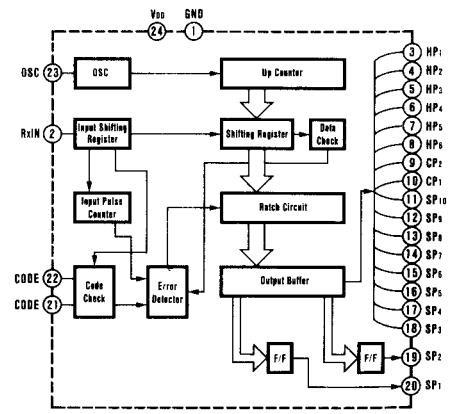
LA3246 BLOCK DIAGRAM



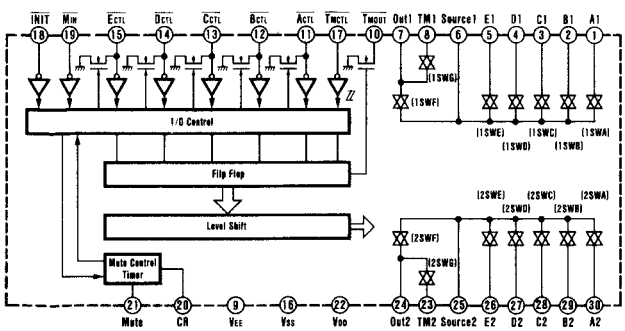
CXA1101P BLOCK DIAGRAM



TC9150P BLOCK DIAGRAM

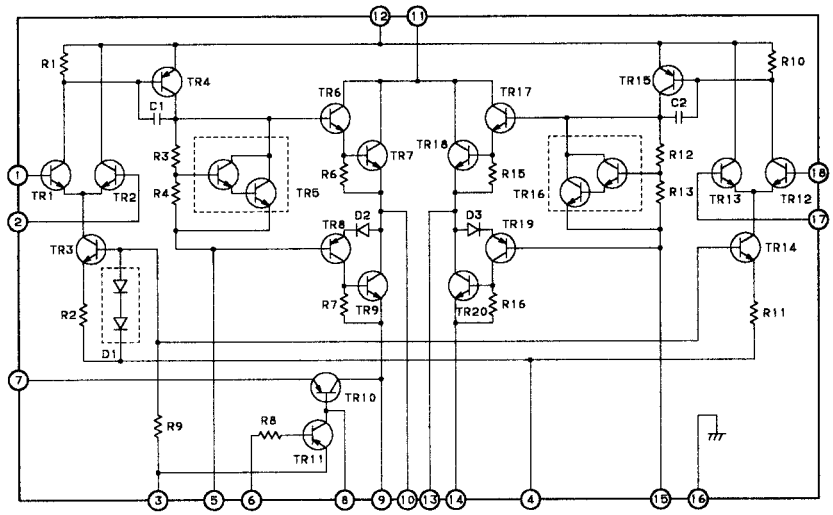


LC7818 BLOCK DIAGRAM

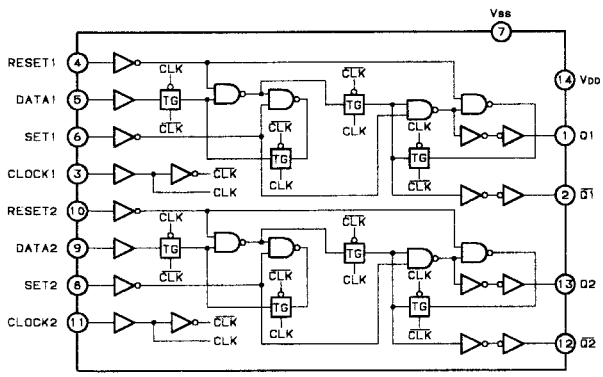


IC BLOCK DIAGRAM (Continued)

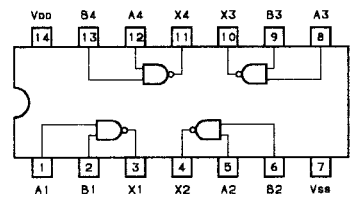
STK4182MK2 BLOCK DIAGRAM



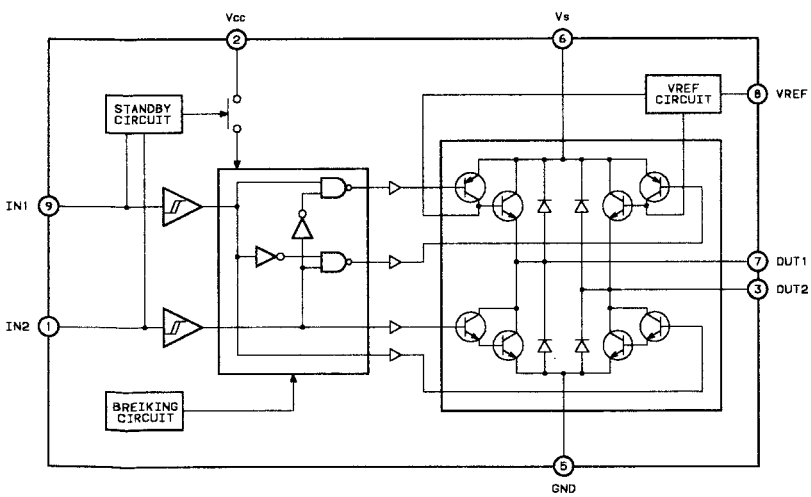
LC4913 BLOCK DIAGRAM



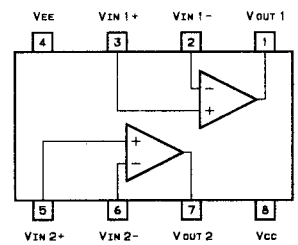
LC4011B BLOCK DIAGRAM



TA8409S BLOCK DIAGRAM



LA6458D BLOCK DIAGRAM



P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
FRONT CONTROL P.C.B. ASSY			
61	620 190 9920	Front Control P.C.B. Assy	1
	620 190 9685	Photo Sensor P.C.B.	1
	620 052 0171	Spacer	6
	620 191 4542	Jumper	1
	620 191 0193	Cover Shield	1
CA103	620 020 4200	Connector 4P Assy	1
CA105	620 017 5432	Connector 9P Assy	1
CA106	620 020 6617	Connector 7P Assy	1
CA112	620 191 0711	Connector 5P Assy	1
JW101	620 024 2059	Wire 3 Parallel	1
JW102	620 024 2066	Wire 4 Parallel	1
S101⚠	620 015 2693	Tact Switch 1P1T (POWER)	1
S102	620 016 4375	Push Switch 2P2T (SURROUND)	1
T101	620 029 1576	Coil 38kHz	1
VR101	620 191 0650	Slide Volume (SW-100kΩx2, 63Hz)	1
VR102	620 191 0650	Slide Volume (SW-100kΩx2, 250Hz)	1
VR103	620 191 0650	Slide Volume (SW-100kΩx2, 1kHz)	1
VR104	620 191 0650	Slide Volume (SW-100kΩx2, 4kHz)	1
VR105	620 191 0650	Slide Volume (SW-100kΩx2, 16kHz)	1
VR106	620 190 7773	Slide Volume 20K-MN (BALANCE)	1
IC101	409 018 4305	IC LA6458D	1
IC102	409 072 8004	IC UPC1473HA	1
IC103	409 021 0301	IC LC4913	1
IC104	409 166 9405	IC TA8409S	1
IC105	409 020 6908	IC LC4011B	1
or	409 003 9001	IC BU4011B	1
Q101	405 019 3804	TR 2SC536-G-NP-AA	1
Q102	405 019 3804	TR 2SC536-G-NP-AA	1
Q103	405 019 3804	TR 2SC536-G-NP-AA	1
Q104	405 019 3804	TR 2SC536-G-NP-AA	1
Q105	405 019 3804	TR 2SC536-G-NP-AA	1
Q106	405 019 3804	TR 2SC536-G-NP-AA	1
Q107	405 019 3804	TR 2SC536-G-NP-AA	1
Q108	405 019 3804	TR 2SC536-G-NP-AA	1
Q109	405 019 3804	TR 2SC536-G-NP-AA	1
Q110	405 019 3804	TR 2SC536-G-NP-AA	1
Q111	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q112	405 018 2501	TR 2SC3399	1
or	405 035 0801	TR DTC144-ES	1
Q113	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q114	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q115	405 004 0009	TR 2SA1420	1
or	405 068 4609	TR DTA144-ES-TP	1
Q116	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q117	405 018 2501	TR 2SC3399	1
or	405 035 0801	TR DTC144-ES	1
Q118	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q119	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q120	405 018 2501	TR 2SC3399	1
or	405 035 0801	TR DTC144-ES	1
Q121	405 018 2501	TR 2SC3399	1
or	405 035 0801	TR DTC144-ES	1
Q122	405 018 2501	TR 2SC3399	1
or	405 035 0801	TR DTC144-ES	1
D101	407 028 3806	LED SLP-165B-50 (STANDBY)	1
or	407 028 3905	LED SLP-165B-51	1
D102	407 028 3905	LED SLP-165B-51 (TUNER)	1
or	407 028 3806	LED SLP-165B-50	1
D103	407 028 3905	LED SLP-165B-51 (TAPE)	1
or	407 028 3806	LED SLP-165B-50	1
D104	407 028 3905	LED SLP-165B-51 (CD)	1
or	407 028 3806	LED SLP-165B-50	1
D105	407 028 3905	LED SLP-165B-51 (AUX)	1
or	407 028 3806	LED SLP-165B-50	1
D106	407 028 3806	LED SLP-165B-50 (PHONO)	1
D107	407 004 9105	DIODE DSF10C-BT	1
D108	407 008 0405	DIODE GMB01-BT	1
D109	407 008 0405	DIODE GMB01-BT	1
D110	407 008 0405	DIODE GMB01-BT	1
D111	407 008 0405	DIODE GMB01-BT	1
D112	407 008 0405	DIODE GMB01-BT	1
D113	407 098 9906	LED SLZ-171E-03 (REMOTE CONTROL)	1

Ref. No.	Part No.	Description	Q'ty
D114	407 008 0405	DIODE GMB01-BT	1
D115	407 008 0405	DIODE GMB01-BT	1
D116	407 008 0405	DIODE GMB01-BT	1
D117	407 008 0405	DIODE GMB01-BT	1
D118	407 065 0905	PHOTO DIODE SPS-501C-1	1
C101	403 059 0609	POLYESTER 0.018U K 50V	1
C102	403 059 0609	POLYESTER 0.018U K 50V	1
C103	403 050 1605	ELECT 2.2U M 50V	1
C104	403 050 1605	ELECT 2.2U M 50V	1
C105	403 063 6406	POLYESTER 8200P K 50V	1
C106	403 063 6406	POLYESTER 8200P K 50V	1
C107	403 048 7909	ELECT 0.47U M 50V	1
C108	403 048 7909	ELECT 0.47U M 50V	1
C109	403 061 8907	POLYESTER 4700P K 50V	1
C110	403 061 8907	POLYESTER 4700P K 50V	1
C111	403 063 8301	POLYESTER 0.082U K 50V	1
C112	403 063 8301	POLYESTER 0.082U K 50V	1
C113	403 058 1805	POLYESTER 1500P K 50V	1
C114	403 058 1805	POLYESTER 1500P K 50V	1
C115	403 059 6809	POLYESTER 0.022U K 50V	1
C116	403 059 6809	POLYESTER 0.022U K 50V	1
C117	403 074 9007	CERAMIC 680P K 50V	1
C118	403 074 9007	CERAMIC 680P K 50V	1
C119	403 061 8907	POLYESTER 4700P K 50V	1
C120	403 061 8907	POLYESTER 4700P K 50V	1
C121	403 045 0606	ELECT 100U M 25V	1
C122	403 045 0606	ELECT 100U M 25V	1
C123	403 049 1609	ELECT 1U M 50V	1
C124	403 049 1609	ELECT 1U M 50V	1
C125	403 017 7701	CERAMIC 22P J 50V	1
C126	403 017 7701	CERAMIC 22P J 50V	1
C127	403 041 3700	ELECT 47U M 10V	1
C128	403 041 3700	ELECT 47U M 10V	1
C129	403 044 8504	ELECT 10U M 25V	1
C130	403 044 8504	ELECT 10U M 25V	1
C131	403 047 4404	ELECT 47U M 25V	1
C132	403 047 4404	ELECT 47U M 25V	1
C133	403 044 8207	ELECT 10U M 25V	1
C134	403 044 0300	ELECT 47U M 16V	1
C135	403 040 2704	ELECT 22U M 10V	1
C136	403 042 0302	ELECT 10U M 16V	1
C137	403 057 0908	POLYESTER 0.01U K 50V	1
C138	403 044 8504	ELECT 10U M 25V	1
C139	403 056 8806	POLYESTER 1000P K 50V	1
C140	403 059 6809	POLYESTER 0.022U K 50V	1
C141	403 050 1605	ELECT 2.2U M 50V	1
C142	403 085 7603	NP-ELECT 10U M 25V	1
C143	403 044 8207	ELECT 10U M 25V	1
C144	403 086 2706	NP-ELECT 1U M 50V	1
C145	403 044 8207	ELECT 10U M 25V	1
C146	403 044 8207	ELECT 10U M 25V	1
C147	403 044 8207	ELECT 10U M 25V	1
R101	401 025 3807	CARBON 180 JA 1/6W	1
R102	401 025 3807	CARBON 180 JA 1/6W	1
R103	401 027 2600	CARBON 5.6K JA 1/6W	1
R104	401 027 2600	CARBON 5.6K JA 1/6W	1
R105	401 025 2305	CARBON 150K JA 1/6W	1
R106	401 025 2305	CARBON 150K JA 1/6W	1
R107	401 024 9305	CARBON 1.2K JA 1/6W	1
R108	401 024 9305	CARBON 1.2K JA 1/6W	1
R109	401 025 3807	CARBON 180 JA 1/6W	1
R110	401 025 3807	CARBON 180 JA 1/6W	1
R111	401 027 2600	CARBON 5.6K JA 1/6W	1
R112	401 027 2600	CARBON 5.6K JA 1/6W	1
R113	401 024 7707	CARBON 100K JA 1/6W	1
R114	401 024 7707	CARBON 100K JA 1/6W	1
R115	401 024 9305	CARBON 1.2K JA 1/6W	1
R116	401 024 9305	CARBON 1.2K JA 1/6W	1
R117	401 025 3807	CARBON 180 JA 1/6W	1
R118	401 025 3807	CARBON 180 JA 1/6W	1
R119	401 027 2600	CARBON 5.6K JA 1/6W	1
R120	401 027 2600	CARBON 5.6K JA 1/6W	1
R121	401 026 7408	CARBON 39K JA 1/6W	1
R122	401 026 7408	CARBON 39K JA 1/6W	1
R123	401 025 1605	CARBON 1.5K JA 1/6W	1
R124	401 025 1605	CARBON 1.5K JA 1/6W	1
R125	401 025 3807	CARBON 180 JA 1/6W	1
R126	401 025 3807	CARBON 180 JA 1/6W	1
R127	401 027 2600	CARBON 5.6K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R128	401 027 2600	CARBON 5.6K JA 1/6W	1
R129	401 026 4605	CARBON 33K JA 1/6W	1
R130	401 026 4605	CARBON 33K JA 1/6W	1
R131	401 025 1605	CARBON 1.5K JA 1/6W	1
R132	401 025 1605	CARBON 1.5K JA 1/6W	1
R133	401 025 3807	CARBON 180 JA 1/6W	1
R134	401 025 3807	CARBON 180 JA 1/6W	1
R135	401 027 2600	CARBON 5.6K JA 1/6W	1
R136	401 027 2600	CARBON 5.6K JA 1/6W	1
R137	401 025 8208	CARBON 22K JA 1/6W	1
R138	401 025 8208	CARBON 22K JA 1/6W	1
R139	401 025 1605	CARBON 1.5K JA 1/6W	1
R140	401 025 1605	CARBON 1.5K JA 1/6W	1
R141	402 016 5503	FUSIBLE RES 47 J- 1/2W	1
R142	402 016 5503	FUSIBLE RES 47 J- 1/2W	1
R145	401 026 9907	CARBON 4.7K JA 1/6W	1
R146	401 020 2003	CARBON 4.7K JA 1/4W	1
R147	401 024 7707	CARBON 100K JA 1/6W	1
R148	401 024 7707	CARBON 100K JA 1/6W	1
R149	401 026 9907	CARBON 4.7K JA 1/6W	1
R150	401 026 9907	CARBON 4.7K JA 1/6W	1
R153	402 015 9205	FUSIBLE RES 47 J- 1/4W	1
R154	402 015 9205	FUSIBLE RES 47 J- 1/4W	1
R155	401 024 7004	CARBON 1K JA 1/6W	1
R156	401 025 7102	CARBON 22 JA 1/6W	1
R157	401 027 0309	CARBON 47K JA 1/6W	1
R158	401 024 7707	CARBON 100K JA 1/6W	1
R159	401 024 7400	CARBON 10K JA 1/6W	1
R160	401 024 6700	CARBON 100 JA 1/6W	1
R161	401 026 3905	CARBON 330 JA 1/6W	1
R162	401 014 4105	CARBON 1.5K JA 1/4W	1
R163	401 014 4105	CARBON 1.5K JA 1/4W	1
R164	401 014 4105	CARBON 1.5K JA 1/4W	1
R165	401 014 4105	CARBON 1.5K JA 1/4W	1
R166	401 014 4105	CARBON 1.5K JA 1/4W	1
R167	401 027 0309	CARBON 47K JA 1/6W	1
R168	401 024 8001	CARBON 1M JA 1/6W	1
R169	401 024 7707	CARBON 100K JA 1/6W	1
R170	401 025 1902	CARBON 15K JA 1/6W	1
R171	401 012 8105	CARBON 100K JA 1/4W	1
R173	401 024 7707	CARBON 100K JA 1/6W	1
R174	401 027 9005	CARBON 82K JA 1/6W	1
R176	401 027 0309	CARBON 47K JA 1/6W	1
R177	401 012 5708	CARBON 1K JA 1/4W	1
R178	401 027 0309	CARBON 47K JA 1/6W	1
R179	401 024 8001	CARBON 1M JA 1/6W	1
R180	401 026 7606	CARBON 390K JA 1/6W	1
R181	401 025 8703	CARBON 220K JA 1/6W	1
R182	401 027 0309	CARBON 47K JA 1/6W	1
R183	401 027 0309	CARBON 47K JA 1/6W	1
R184	401 012 5708	CARBON 1K JA 1/4W	1
R185	401 024 7400	CARBON 10K JA 1/6W	1
R186	401 024 7400	CARBON 10K JA 1/6W	1
VOLUME P.C.B. ASSY			
62	620 190 9937	Volume P.C.B. Assy	1
	620 031 4763	Wire Wrap Terminal	2
CA104	620 191 0704	Connector 3P Assy	1
VR801	620 182 6852	Motor Volume 20K30AMX2	1
C803	403 067 7003	MT-COMPO 0.27U J 50V	1
C804	403 067 7003	MT-COMPO 0.27U J 50V	1
R801	401 025 4200	CARBON 1.8K JA 1/6W	1
R802	401 025 4200	CARBON 1.8K JA 1/6W	1
R803	401 012 5708	CARBON 1K JA 1/4W	1
VOLUME IND P.C.B. ASSY			
63	620 190 9944	Volume IND P.C.B. Assy	1
D119	407 028 8009	LED SLP-171E-01	1
FUNCTION SWITCH P.C.B. ASSY			
64	620 190 9951	Function Switch P.C.B. Assy	1
S103	620 015 1948	Tact Switch (PHONO)	1
S104	620 015 1948	Tact Switch (TAPE)	1
S105	620 015 1948	Tact Switch (CD)	1
S106	620 015 1948	Tact Switch (TUNER)	1
S107	620 015 1948	Tact Switch (AUX)	1
DOLBY SWITCH P.C.B. ASSY			
65	620 190 9968	Dolby Switch P.C.B. Assy	1

Ref. No.	Part No.	Description	Q'ty
CA109	620 018 0153	Connector 7P Assy	1
S703	620 016 4375	Push Switch 2P2T (DECK-1)	1
S704	620 016 4375	Push Switch 2P2T (DECK-2)	1
S705	620 016 4375	Push Switch 2P2T (DOLBY NR)	1
R710	401 055 7103	OXIDE-MT 270 JA 1/2W	1
R711	401 055 5307	OXIDE-MT 220 JA 1/2W	1
TAPE PRE AMPLIFIER P.C.B. ASSY			
66	620 190 9975	Tape PRE Amplifier P.C.B. Assy	1
	620 031 4763	Wire Wrap Terminal	7
	620 186 7275	Plate Earth	1
CA102	620 020 0820	Connector 8P Assy	1
JK201	620 017 2516	Pin Jack 2P	1
JK202	620 017 2448	Pin Jack 4P	1
L201	620 026 4440	Bias Trap	1
L202	620 026 4440	Bias Trap	1
L203	620 026 4631	Bias Trap 105 Shield	1
L204	620 026 4631	Bias Trap 105 Shield	1
L205	620 027 1912	AF Coil	1
L206	620 027 1912	AF Coil	1
PL105	620 021 6678	Plug 9P	1
PL106	620 021 6234	Plug 7P	1
PL107	620 021 2106	Plug 8P	1
PL108	620 021 1970	Plug 2P	1
PL109	620 021 6234	Plug 7P	1
PL110	620 021 5954	Plug 6P	1
PL111	620 021 5923	Plug 3P	1
PL112	620 021 5947	Plug 5P	1
PL113	620 021 6609	Plug 10P	1
PL114	620 022 0798	Plug 10P	1
T201	620 029 5864	Filter Dolby	1
T202	620 029 5864	Filter Dolby	1
T203	620 028 8668	Coil OSC	1
VR201	620 006 1322	Semi Fixed (B-47kΩ)	1
VR202	620 006 1322	Semi Fixed (B-47kΩ)	1
VR203	620 006 1322	Semi Fixed (B-47kΩ)	1
VR204	620 006 1322	Semi Fixed (B-47kΩ)	1
VR205	620 006 1353	Potentiometer (B-100kΩ)	1
VR206	620 006 1353	Potentiometer (B-100kΩ)	1
IC201	409 018 4305	IC LA6458D	1
IC202	409 022 3608	IC LC7818	1
IC203	409 018 4305	IC LA6458D	1
IC204	409 053 0201	IC TC9150P	1
IC205	409 020 6601	IC LC4001B	1
or	409 003 8905	IC BU4001B	1
IC206	409 020 6908	IC LC4011B	1
or	409 003 9001	IC BU4011B	1
IC207	409 121 8702	IC LA3246	1
IC208	409 119 9803	IC CXA1101P	1
IC209	409 145 8405	IC UPC1330HA	1
IC210	409 018 4909	IC LA6458S	1
IC211	409 020 6601	IC LC4001B	1
or	409 003 8905	IC BU4001B	1
IC212	409 020 6601	IC LC4001B	1
or	409 003 8905	IC BU4001B	1
Q201	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q202	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q203	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q204	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q205	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q206	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q207	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q209	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q210	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q211	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q212	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q213	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
Q214	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q215	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q216	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q217	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q218	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q219	405 010 9904	TR 2SC1571-F-L-NP	1
or	405 011 0009	TR 2SC1571-G-L-NP	1
Q220	405 010 9904	TR 2SC1571-F-L-NP	1
or	405 011 0009	TR 2SC1571-G-L-NP	1
Q221	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q222	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q223	405 019 3804	TR 2SC536-G-NP-AA	1
Q224	405 019 3804	TR 2SC536-G-NP-AA	1
Q225	405 019 3804	TR 2SC536-G-NP-AA	1
Q226	405 019 3804	TR 2SC536-G-NP-AA	1
Q227	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q228	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q229	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q230	405 004 4502	TR 2SA608-F-NP-AA	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q231	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q232	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q233	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q234	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q235	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q236	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q237	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q238	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q239	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q240	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q241	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q242	405 004 0009	TR 2SA1420	1
or	405 068 4609	TR DTA144-ES-TP	1
Q243	405 018 7209	TR 2SC3708-S	1
Q244	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q245	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q246	405 018 2501	TR 2SC3399	1
or	405 035 0801	TR DTC144-ES	1
Q247	405 004 0009	TR 2SA1420	1
or	405 068 4609	TR DTA144-ES-TP	1
Q248	405 018 2600	TR 2SC3400	1
or	405 034 9706	TR DTC124-ES	1
Q249	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
D201	407 005 3805	DIODE DS442-BT	1
D202	407 005 3805	DIODE DS442-BT	1
D203	407 008 0405	DIODE GMB01-BT	1
D204	407 008 0405	DIODE GMB01-BT	1
D205	407 008 0405	DIODE GMB01-BT	1
D206	407 008 0405	DIODE GMB01-BT	1
D207	407 008 0405	DIODE GMB01-BT	1
D208	407 008 0405	DIODE GMB01-BT	1
D209	407 008 0405	DIODE GMB01-BT	1
D210	407 008 0405	DIODE GMB01-BT	1
D211	407 008 0405	DIODE GMB01-BT	1
D212	407 008 0405	DIODE GMB01-BT	1

Ref. No.	Part No.	Description	Q'ty
D213	407 008 0405	DIODE GMB01-BT	1
D214	407 005 3805	DIODE DS442-BT	1
D215	407 005 3805	DIODE DS442-BT	1
D216	407 005 3805	DIODE DS442-BT	1
D217	407 005 3805	DIODE DS442-BT	1
D218	407 005 3805	DIODE DS442-BT	1
D219	407 005 3805	DIODE DS442-BT	1
D220	407 005 3805	DIODE DS442-BT	1
D221	407 008 0405	DIODE GMB01-BT	1
D222	407 008 0405	DIODE GMB01-BT	1
D223	407 008 0405	DIODE GMB01-BT	1
D224	407 008 0405	DIODE GMB01-BT	1
D225	407 008 0405	DIODE GMB01-BT	1
D226	407 008 0405	DIODE GMB01-BT	1
D227	407 008 0405	DIODE GMB01-BT	1
D228	407 008 0405	DIODE GMB01-BT	1
D229	407 008 0405	DIODE GMB01-BT	1
D230	407 008 0405	DIODE GMB01-BT	1
D231	407 008 0405	DIODE GMB01-BT	1
D232	407 008 0405	DIODE GMB01-BT	1
D233	407 008 0405	DIODE GMB01-BT	1
D234	407 008 0405	DIODE GMB01-BT	1
D235	407 008 0405	DIODE GMB01-BT	1
D236	407 008 0405	DIODE GMB01-BT	1
D237	407 008 0405	DIODE GMB01-BT	1
D238	407 008 0405	DIODE GMB01-BT	1
D239	407 008 0405	DIODE GMB01-BT	1
D240	407 008 0405	DIODE GMB01-BT	1
D241	407 008 0405	DIODE GMB01-BT	1
D242	407 008 0405	DIODE GMB01-BT	1
D243	407 008 0405	DIODE GMB01-BT	1
D245	407 005 3805	DIODE DS442-BT	1
C201	403 071 5903	CERAMIC 220P K 50V	1
C202	403 071 5903	CERAMIC 220P K 50V	1
C203	403 069 8404	CERAMIC 0.01U Z 50V	1
C204	403 059 5208	POLYESTER 0.022U J 50V	1
C205	403 073 6502	CERAMIC 470P K 50V	1
C206	403 073 6502	CERAMIC 470P K 50V	1
C207	403 047 1502	ELECT 4.7U M 25V	1
C208	403 047 1502	ELECT 4.7U M 25V	1
C209	403 041 3304	ELECT 47U M 10V	1
C210	403 041 3304	ELECT 47U M 10V	1
C211	403 071 5903	CERAMIC 220P K 50V	1
C212	403 071 5903	CERAMIC 220P K 50V	1
C213	403 058 9603	POLYESTER 0.018U J 50V	1
C214	403 058 9603	POLYESTER 0.018U J 50V	1
C215	403 061 7801	POLYESTER 4700P J 50V	1
C216	403 061 7801	POLYESTER 4700P J 50V	1
C217	403 049 1609	ELECT 1U M 50V	1
C218	403 049 1609	ELECT 1U M 50V	1
C219	403 071 5903	CERAMIC 220P K 50V	1
C220	403 071 5903	CERAMIC 220P K 50V	1
C221	403 073 6502	CERAMIC 470P K 50V	1
C222	403 073 6502	CERAMIC 470P K 50V	1
C223	403 073 6502	CERAMIC 470P K 50V	1
C224	403 073 6502	CERAMIC 470P K 50V	1
C225	403 049 1609	ELECT 1U M 50V	1
C226	403 049 1609	ELECT 1U M 50V	1
C227	403 044 8207	ELECT 10U M 25V	1
C228	403 044 8207	ELECT 10U M 25V	1
C229	403 047 4305	ELECT 47U M 25V	1
C230	403 047 4305	ELECT 47U M 25V	1
C231	403 047 4305	ELECT 47U M 25V	1
C232	403 047 4305	ELECT 47U M 25V	1
C233	403 044 8207	ELECT 10U M 25V	1
C234	403 056 7304	POLYESTER 1000P J 50V	1
C235	403 049 1609	ELECT 1U M 50V	1
C236	403 086 2706	NP-ELECT 1U M 50V	1
C237	403 086 2706	NP-ELECT 1U M 50V	1
C238	403 044 8207	ELECT 10U M 25V	1
C239	403 072 2703	CERAMIC 0.022U Z 50V	1
C240	403 072 2703	CERAMIC 0.022U Z 50V	1
C241	403 111 7607	POLYESTER 0.068U K 50V	1
C242	403 044 8207	ELECT 10U M 25V	1
C243	403 044 8207	ELECT 10U M 25V	1
C245	403 071 5903	CERAMIC 220P K 50V	1
C246	403 071 5903	CERAMIC 220P K 50V	1
C247	403 071 5903	CERAMIC 220P K 50V	1
C248	403 071 5903	CERAMIC 220P K 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C249	403 073 6502	CERAMIC	470P	K	50V	1
C250	403 073 6502	CERAMIC	470P	K	50V	1
C251	403 047 1502	ELECT	4.7U	M	25V	1
C252	403 047 1502	ELECT	4.7U	M	25V	1
C253	403 047 1502	ELECT	4.7U	M	25V	1
C254	403 047 1502	ELECT	4.7U	M	25V	1
C255	403 039 7901	ELECT	100U	M	10V	1
C256	403 039 7901	ELECT	100U	M	10V	1
C257	403 056 9704	POLYESTER	0.01U	J	50V	1
C258	403 056 9704	POLYESTER	0.01U	J	50V	1
C259	403 044 8207	ELECT	10U	M	25V	1
C260	403 044 8207	ELECT	10U	M	25V	1
C263	403 042 3600	ELECT	100U	M	16V	1
C264	403 042 3600	ELECT	100U	M	16V	1
C265	403 047 1502	ELECT	4.7U	M	25V	1
C267	403 044 8207	ELECT	10U	M	25V	1
C268	403 042 3600	ELECT	100U	M	16V	1
C269	403 047 1502	ELECT	4.7U	M	25V	1
C270	403 047 1502	ELECT	4.7U	M	25V	1
C271	403 044 8207	ELECT	10U	M	25V	1
C272	403 044 8207	ELECT	10U	M	25V	1
C273	403 044 8207	ELECT	10U	M	25V	1
C274	403 044 8207	ELECT	10U	M	25V	1
C275	403 073 6502	CERAMIC	470P	K	50V	1
C276	403 073 6502	CERAMIC	470P	K	50V	1
C277	403 050 1209	ELECT	2.2U	M	50V	1
C278	403 050 1209	ELECT	2.2U	M	50V	1
C279	403 042 3600	ELECT	100U	M	16V	1
C280	403 040 4807	ELECT	220U	M	10V	1
C281	403 092 8600	TA-SOLID	0.68U	K	35V	1
or	403 000 9309	AL-SOLID	0.68U	K	25V	1
C282	403 092 8600	TA-SOLID	0.68U	K	35V	1
or	403 000 9309	AL-SOLID	0.68U	K	25V	1
C283	403 050 1308	ELECT	2.2U	M	50V	1
C284	403 050 1308	ELECT	2.2U	M	50V	1
C285	403 047 1502	ELECT	4.7U	M	25V	1
C286	403 047 1502	ELECT	4.7U	M	25V	1
C287	403 044 8207	ELECT	10U	M	25V	1
C288	403 044 8207	ELECT	10U	M	25V	1
C289	403 049 1609	ELECT	1U	M	50V	1
C290	403 049 1609	ELECT	1U	M	50V	1
C291	403 050 1308	ELECT	2.2U	M	50V	1
C292	403 050 1308	ELECT	2.2U	M	50V	1
C293	403 060 0001	POLYESTER	2700P	J	50V	1
C294	403 060 0001	POLYESTER	2700P	J	50V	1
C295	403 047 1502	ELECT	4.7U	M	25V	1
C296	403 047 1502	ELECT	4.7U	M	25V	1
C297	403 042 3600	ELECT	100U	M	16V	1
C298	403 042 3600	ELECT	100U	M	16V	1
C299	403 049 1609	ELECT	1U	M	50V	1
C300	403 049 1609	ELECT	1U	M	50V	1
C301	403 071 5903	CERAMIC	220P	K	50V	1
C302	403 071 5903	CERAMIC	220P	K	50V	1
C303	403 048 3109	ELECT	0.22U	M	50V	1
C304	403 048 3109	ELECT	0.22U	M	50V	1
C305	403 044 8207	ELECT	10U	M	25V	1
C306	403 044 8207	ELECT	10U	M	25V	1
C307	403 057 7204	POLYESTER	0.012U	J	50V	1
C308	403 057 7204	POLYESTER	0.012U	J	50V	1
C309	403 057 7204	POLYESTER	0.012U	J	50V	1
C310	403 057 7204	POLYESTER	0.012U	J	50V	1
C313	403 062 9705	POLYESTER	6800P	J	50V	1
C314	403 062 9705	POLYESTER	6800P	J	50V	1
C315	403 044 8207	ELECT	10U	M	25V	1
C316	403 044 8207	ELECT	10U	M	25V	1
C317	403 073 6502	CERAMIC	470P	K	50V	1
C318	403 073 6502	CERAMIC	470P	K	50V	1
C319	403 071 5903	CERAMIC	220P	K	50V	1
C320	403 071 5903	CERAMIC	220P	K	50V	1
C321	403 056 9704	POLYESTER	0.01U	J	50V	1
C322	403 056 9704	POLYESTER	0.01U	J	50V	1
C323	403 080 6205	POLYPRO	0.01U	J	100V	1
C324	403 047 1502	ELECT	4.7U	M	25V	1
C326	403 044 8207	ELECT	10U	M	25V	1
C327	403 047 1502	ELECT	4.7U	M	25V	1
C328	403 069 8404	CERAMIC	0.01U	Z	50V	1
C329	403 072 2703	CERAMIC	0.022U	Z	50V	1
C330	403 072 2703	CERAMIC	0.022U	Z	50V	1
C331	403 072 2703	CERAMIC	0.022U	Z	50V	1

Ref. No.	Part No.	Description				Q'ty
C332	403 048 7602	ELECT	0.47U	M	50V	1
C333	403 049 1609	ELECT	1U	M	50V	1
C334	403 049 1609	ELECT	1U	M	50V	1
C335	403 049 1609	ELECT	1U	M	50V	1
C336	403 050 1209	ELECT	2.2U	M	50V	1
C337	403 044 8207	ELECT	10U	M	25V	1
C338	403 040 2704	ELECT	22U	M	10V	1
C339	403 044 8207	ELECT	10U	M	25V	1
C340	403 044 8207	ELECT	10U	M	25V	1
C341	403 044 8207	ELECT	10U	M	25V	1
C342	403 047 1502	ELECT	4.7U	M	25V	1
C343	403 047 1502	ELECT	4.7U	M	25V	1
C344	403 074 9007	CERAMIC	680P	K	50V	1
C345	403 074 9007	CERAMIC	680P	K	50V	1
C346	403 071 5903	CERAMIC	220P	K	50V	1
C347	403 071 5903	CERAMIC	220P	K	50V	1
C348	403 073 6502	CERAMIC	470P	K	50V	1
C349	403 073 6502	CERAMIC	470P	K	50V	1
C351	403 059 5208	POLYESTER	0.022U	J	50V	1
C352	403 059 5208	POLYESTER	0.022U	J	50V	1
R117	401 020 2904	CARBON	47K	JA	1/4W	1
R201	401 025 7805	CARBON	2.2K	JA	1/6W	1
R202	401 025 7805	CARBON	2.2K	JA	1/6W	1
R203	401 024 7707	CARBON	100K	JA	1/6W	1
R204	401 024 7707	CARBON	100K	JA	1/6W	1
R205	401 024 7707	CARBON	100K	JA	1/6W	1
R206	401 024 7707	CARBON	100K	JA	1/6W	1
R207	401 025 7409	CARBON	220	JA	1/6W	1
R208	401 025 7409	CARBON	220	JA	1/6W	1
R209	401 025 8703	CARBON	220K	JA	1/6W	1
R210	401 025 8703	CARBON	220K	JA	1/6W	1
R211	401 025 1902	CARBON	15K	JA	1/6W	1
R212	401 025 1902	CARBON	15K	JA	1/6W	1
R213	401 027 0309	CARBON	47K	JA	1/6W	1
R214	401 027 0309	CARBON	47K	JA	1/6W	1
R215	401 020 0306	CARBON	470	JA	1/4W	1
R216	401 020 0306	CARBON	470	JA	1/4W	1
R217	401 026 9600	CARBON	470	JA	1/6W	1
R218	401 026 9600	CARBON	470	JA	1/6W	1
R219	401 024 7707	CARBON	100K	JA	1/6W	1
R220	401 024 7707	CARBON	100K	JA	1/6W	1
R221	401 026 9600	CARBON	470	JA	1/6W	1
R222	401 026 9600	CARBON	470	JA	1/6W	1
R223	401 024 7707	CARBON	100K	JA	1/6W	1
R224	401 024 7707	CARBON	100K	JA	1/6W	1
R225	401 025 8703	CARBON	220K	JA	1/6W	1
R226	401 025 8703	CARBON	220K	JA	1/6W	1
R227	401 025 8703	CARBON	220K	JA	1/6W	1
R228	401 025 8703	CARBON	220K	JA	1/6W	1
R229	401 020 0306	CARBON	470	JA	1/4W	1
R230	401 020 0306	CARBON	470	JA	1/4W	1
R231	401 024 7707	CARBON	100K	JA	1/6W	1
R232	401 024 7707	CARBON	100K	JA	1/6W	1
R233	401 026 9600	CARBON	470	JA	1/6W	1
R234	401 026 9600	CARBON	470	JA	1/6W	1
R235	401 016 3809	CARBON	2.2K	JA	1/4W	1
R236	401 025 4606	CARBON	18K	JA	1/6W	1
R237	401 027 0309	CARBON	47K	JA	1/6W	1
R238	401 020 2904	CARBON	47K	JA	1/4W	1
R239	401 027 0309	CARBON	47K	JA	1/6W	1
R240	401 026 7408	CARBON	39K	JA	1/6W	1
R241	401 024 7707	CARBON	100K	JA	1/6W	1
R242	401 024 7707	CARBON	100K	JA	1/6W	1
R243	401 024 8001	CARBON	1M	JA	1/6W	1
R244	401 027 3003	CARBON	56K	JA	1/6W	1
R245	401 024 7004	CARBON	1K	JA	1/6W	1
R246	401 026 7606	CARBON	390K	JA	1/6W	1
R247	401 026 7606	CARBON	390K	JA	1/6W	1
R248	401 012 5708	CARBON	1K	JA	1/4W	1
R249	401 024 7707	CARBON	100K	JA	1/6W	1
R257	401 027 0309	CARBON	47K	JA	1/6W	1
R258	401 024 7400	CARBON	10K	JA	1/6W	1
R259	401 024 7400	CARBON	10K	JA	1/6W	1
R260	401 024 7400	CARBON	10K	JA	1/6W	1
R261	401 024 8001	CARBON	1M	JA	1/6W	1
R262	401 024 8001	CARBON	1M	JA	1/6W	1
R263	401 024 7707	CARBON	100K	JA	1/6W	1
R264	401 024 7707	CARBON	100K	JA	1/6W	1
R265	401 024 6403	CARBON	10	JA	1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description		Q'ty
R266	401 024 6403	CARBON	10 JA 1/6W	1
R267	401 024 7707	CARBON	100K JA 1/6W	1
R268	401 024 7707	CARBON	100K JA 1/6W	1
R269	401 025 1308	CARBON	150 JA 1/6W	1
R270	401 025 1308	CARBON	150 JA 1/6W	1
R271	401 024 9701	CARBON	12K JA 1/6W	1
R272	401 024 9701	CARBON	12K JA 1/6W	1
R273	401 025 4606	CARBON	18K JA 1/6W	1
R274	401 025 4606	CARBON	18K JA 1/6W	1
R275	401 025 7805	CARBON	2.2K JA 1/6W	1
R276	401 025 7805	CARBON	2.2K JA 1/6W	1
R281	401 012 7009	CARBON	10K JA 1/4W	1
R282	401 024 7400	CARBON	10K JA 1/6W	1
R283	401 027 0309	CARBON	47K JA 1/6W	1
R284	401 027 0309	CARBON	47K JA 1/6W	1
R285	401 027 0309	CARBON	47K JA 1/6W	1
R286	401 027 0309	CARBON	47K JA 1/6W	1
R287	401 025 8208	CARBON	22K JA 1/6W	1
R288	401 025 8208	CARBON	22K JA 1/6W	1
R291	401 026 9907	CARBON	4.7K JA 1/6W	1
R292	401 027 0309	CARBON	47K JA 1/6W	1
R293	401 012 4107	CARBON	100 JA 1/4W	1
R294	401 024 7400	CARBON	10K JA 1/6W	1
R295	401 024 7707	CARBON	100K JA 1/6W	1
R296	401 024 7707	CARBON	100K JA 1/6W	1
R297	401 024 7400	CARBON	10K JA 1/6W	1
R300	401 016 4806	CARBON	22K JA 1/4W	1
R301	401 026 1307	CARBON	27K JA 1/6W	1
R302	401 027 0309	CARBON	47K JA 1/6W	1
R303	401 025 7102	CARBON	22 JA 1/6W	1
R304	401 024 7400	CARBON	10K JA 1/6W	1
R305	401 024 6403	CARBON	10 JA 1/6W	1
R306	401 016 2208	CARBON	220 JA 1/4W	1
R307	401 025 8208	CARBON	22K JA 1/6W	1
R308	401 025 8208	CARBON	22K JA 1/6W	1
R309	401 027 9005	CARBON	82K JA 1/6W	1
R310	401 027 9005	CARBON	82K JA 1/6W	1
R311	401 024 7004	CARBON	1K JA 1/6W	1
R312	401 024 7004	CARBON	1K JA 1/6W	1
R313	401 026 4308	CARBON	3.3K JA 1/6W	1
R314	401 026 4308	CARBON	3.3K JA 1/6W	1
R315	401 024 7707	CARBON	100K JA 1/6W	1
R316	401 024 7707	CARBON	100K JA 1/6W	1
R317	401 023 2802	CARBON	8.2K JA 1/4W	1
R318	401 027 8602	CARBON	8.2K JA 1/6W	1
R319	401 012 4107	CARBON	100 JA 1/4W	1
R320	401 012 7009	CARBON	10K JA 1/4W	1
R321	401 024 7400	CARBON	10K JA 1/6W	1
R322	401 016 4806	CARBON	22K JA 1/4W	1
R323	401 026 1307	CARBON	27K JA 1/6W	1
R325	401 110 1909	MT-FILM	43K GA 1/6W	1
R326	401 013 3901	CARBON	120 JA 1/4W	1
R327	401 027 0309	CARBON	47K JA 1/6W	1
R328	401 027 0309	CARBON	47K JA 1/6W	1
R329	401 025 8703	CARBON	220K JA 1/6W	1
R330	401 025 8703	CARBON	220K JA 1/6W	1
R331	401 027 3003	CARBON	56K JA 1/6W	1
R332	401 027 3003	CARBON	56K JA 1/6W	1
R333	401 026 4308	CARBON	3.3K JA 1/6W	1
R334	401 026 4308	CARBON	3.3K JA 1/6W	1
R335	401 027 5205	CARBON	680 JA 1/6W	1
R336	401 027 5205	CARBON	680 JA 1/6W	1
R337	401 024 7707	CARBON	100K JA 1/6W	1
R338	401 024 7707	CARBON	100K JA 1/6W	1
R339	401 024 6700	CARBON	100 JA 1/6W	1
R340	401 024 6700	CARBON	100 JA 1/6W	1
R341	401 025 7409	CARBON	220 JA 1/6W	1
R342	401 025 7409	CARBON	220 JA 1/6W	1
R343	401 026 7002	CARBON	3.9K JA 1/6W	1
R344	401 026 7002	CARBON	3.9K JA 1/6W	1
R345	401 024 7707	CARBON	100K JA 1/6W	1
R346	401 024 7707	CARBON	100K JA 1/6W	1
R347	401 026 9907	CARBON	4.7K JA 1/6W	1
R348	401 026 9907	CARBON	4.7K JA 1/6W	1
R349	401 025 8208	CARBON	22K JA 1/6W	1
R350	401 025 8208	CARBON	22K JA 1/6W	1
R351	401 027 0309	CARBON	47K JA 1/6W	1
R352	401 027 0309	CARBON	47K JA 1/6W	1
R353	401 024 7400	CARBON	10K JA 1/6W	1
R354	401 024 7400	CARBON	10K JA 1/6W	1
R355	401 027 2600	CARBON	5.6K JA 1/6W	1
R356	401 027 2600	CARBON	5.6K JA 1/6W	1
R357	401 027 0309	CARBON	47K JA 1/6W	1
R358	401 027 3003	CARBON	56K JA 1/6W	1
R359	401 024 7707	CARBON	100K JA 1/6W	1
R360	401 024 7707	CARBON	100K JA 1/6W	1
R361	401 025 1902	CARBON	15K JA 1/6W	1
R362	401 025 1902	CARBON	15K JA 1/6W	1
R363	401 026 7408	CARBON	39K JA 1/6W	1
R364	401 026 7408	CARBON	39K JA 1/6W	1
R365	401 025 7805	CARBON	2.2K JA 1/6W	1
R366	401 025 7805	CARBON	2.2K JA 1/6W	1
R367	401 025 4606	CARBON	18K JA 1/6W	1
R368	401 025 4606	CARBON	18K JA 1/6W	1
R369	401 024 6700	CARBON	100 JA 1/6W	1
R370	401 025 8208	CARBON	22K JA 1/6W	1
R371	401 025 8208	CARBON	22K JA 1/6W	1
R372	401 025 8208	CARBON	22K JA 1/6W	1
R373	401 022 3107	CARBON	6.8K JA 1/4W	1
R374	401 022 3107	CARBON	6.8K JA 1/4W	1
R375	401 026 4308	CARBON	3.3K JA 1/6W	1
R376	401 026 4308	CARBON	3.3K JA 1/6W	1
R377	401 026 1307	CARBON	27K JA 1/6W	1
R378	401 026 1307	CARBON	27K JA 1/6W	1
R379	401 026 1307	CARBON	27K JA 1/6W	1
R380	401 026 1307	CARBON	27K JA 1/6W	1
R381	401 027 0309	CARBON	47K JA 1/6W	1
R382	401 027 0309	CARBON	47K JA 1/6W	1
R383	401 025 7409	CARBON	220 JA 1/6W	1
R384	401 025 7409	CARBON	220 JA 1/6W	1
R385	401 026 0607	CARBON	270 JA 1/6W	1
R386	401 026 0607	CARBON	270 JA 1/6W	1
R389	401 025 7409	CARBON	220 JA 1/6W	1
R390	401 025 7409	CARBON	220 JA 1/6W	1
R391	401 027 0309	CARBON	47K JA 1/6W	1
R392	401 027 0309	CARBON	47K JA 1/6W	1
R393	401 025 7805	CARBON	2.2K JA 1/6W	1
R394	401 025 7805	CARBON	2.2K JA 1/6W	1
R395	401 025 8208	CARBON	22K JA 1/6W	1
R396	401 025 8208	CARBON	22K JA 1/6W	1
R397	401 027 8602	CARBON	8.2K JA 1/6W	1
R398	401 027 8602	CARBON	8.2K JA 1/6W	1
R399	401 027 0309	CARBON	47K JA 1/6W	1
R500	401 027 0309	CARBON	47K JA 1/6W	1
R501	401 025 7805	CARBON	2.2K JA 1/6W	1
R502	401 024 7400	CARBON	10K JA 1/6W	1
R503	401 024 7707	CARBON	100K JA 1/6W	1
R505	401 024 7400	CARBON	10K JA 1/6W	1
R506	401 027 0309	CARBON	47K JA 1/6W	1
R507	401 027 0309	CARBON	47K JA 1/6W	1
R508	401 020 2904	CARBON	47K JA 1/4W	1
R509	401 024 7707	CARBON	100K JA 1/6W	1
R510	401 024 7707	CARBON	100K JA 1/6W	1
R511	401 024 7707	CARBON	100K JA 1/6W	1
R512	401 024 7707	CARBON	100K JA 1/6W	1
R513	401 024 7707	CARBON	100K JA 1/6W	1
R514	401 025 7805	CARBON	2.2K JA 1/6W	1
R515	401 025 8208	CARBON	22K JA 1/6W	1
R516	401 027 0309	CARBON	47K JA 1/6W	1
R517	401 026 9907	CARBON	4.7K JA 1/6W	1
R518	401 026 9907	CARBON	4.7K JA 1/6W	1
R519	401 020 2904	CARBON	47K JA 1/4W	1
R521	401 026 1307	CARBON	27K JA 1/6W	1
R522	401 026 1307	CARBON	27K JA 1/6W	1
R523	401 027 8602	CARBON	8.2K JA 1/6W	1
R524	401 027 8602	CARBON	8.2K JA 1/6W	1
R525	401 024 7004	CARBON	1K JA 1/6W	1
R526	401 024 7004	CARBON	1K JA 1/6W	1
R527	401 024 7004	CARBON	1K JA 1/6W	1
R528	401 024 7004	CARBON	1K JA 1/6W	1
R529	401 012 5708	CARBON	1K JA 1/4W	1
R531	401 024 7004	CARBON	1K JA 1/6W	1
R532	401 024 7004	CARBON	1K JA 1/6W	1
R533	401 024 7004	CARBON	1K JA 1/6W	1
R534	401 024 7004	CARBON	1K JA 1/6W	1
R535	401 012 5708	CARBON	1K JA 1/4W	1
R536	401 012 5708	CARBON	1K JA 1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
POWER AMPLIFIER P.C.B. ASSY			
67	620 190 9982	Power Amplifier P.C.B. Assy	1
	620 017 2721	Fuse Clip	16
	620 022 2587	EC Terminal 1P	2
	620 022 4956	8P Push Terminal	1
	620 031 4763	Wire Wrap Terminal	14
	620 053 7025	Cover Safety	1
	620 053 9012	Plate Heat Sink	1
	411 020 8004	SCR S-TPG BRZ 3X8	2
F401⚠	423 007 2103	FUSE 250V T 4A	1
F402⚠	423 007 2103	FUSE 250V T 4A	1
F403⚠	423 007 2103	FUSE 250V T 4A	1
F404⚠	423 007 2103	FUSE 250V T 4A	1
F405⚠	423 002 6106	FUSE 250V T 160mA	1
F406⚠	423 006 4702	FUSE 250V T 2.5A	1
F407⚠	423 005 5205	FUSE 250V T 1.6A	1
F408⚠	423 004 3301	FUSE 250V T 800mA	1
JK401	620 017 7177	Socket 2P	1
JK402	620 017 7160	Socket 2P	1
L401	620 026 5447	RF Filter	1
L402	620 026 5447	RF Filter	1
PL101	620 021 5947	Plug 5P	1
PL102	620 021 2106	Plug 8P	1
PL103	620 021 5930	Plug 4P	1
PL104	620 021 5923	Plug 3P	1
RY401	620 017 0406	Relay	1
T401	620 190 7858	Power Trans	1
IC401	409 074 6602	IC STK4182MK2	1
or	409 047 1405	IC STK4192MK2	1
Q401	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q402	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q403	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q404	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q405	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q406	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q407	405 035 7107	TR 2SD1913-R	1
or	405 035 7206	TR 2SD1913-S	1
or	405 022 7004	TR 2SD1666-R	1
or	405 022 7202	TR 2SD1666-S	1
Q408	405 052 8002	TR 2SB1274-R	1
or	405 052 8101	TR 2SB1274-S	1
Q409	405 023 5306	TR 2SD400-F-MP	1
or	405 023 5702	TR 2SD400-G-MP	1
Q410	405 027 0505	TR 2SK246-GR	1
Q411	405 027 0505	TR 2SK246-GR	1
Q412	405 035 7107	TR 2SD1913-R	1
or	405 035 7206	TR 2SD1913-S	1
or	405 022 7004	TR 2SD1666-R	1
or	405 022 7202	TR 2SD1666-S	1
Q413	405 035 7107	TR 2SD1913-R	1
or	405 035 7206	TR 2SD1913-S	1
or	405 022 7004	TR 2SD1666-R	1
or	405 022 7202	TR 2SD1666-S	1
Q414	405 027 0505	TR 2SK246-GR	1
Q415	405 019 3804	TR 2SC536-G-NP-AA	1
D401	407 008 0405	DIODE GMB01-BT	1
D402	407 049 7807	ZENER DIODE GZA18Y-BT	1
D403	407 049 7807	ZENER DIODE GZA18Y-BT	1
D404	407 050 5502	ZENER DIODE GZA5.6Y-BT	1
D405	407 004 7804	DIODE DSA26C-KD2	1
D406	407 004 7804	DIODE DSA26C-KD2	1
D407	407 004 7804	DIODE DSA26C-KD2	1
D408	407 004 7804	DIODE DSA26C-KD2	1
D409	407 004 9105	DIODE DSF10C-BT	1
D410	407 004 9105	DIODE DSF10C-BT	1
D411	407 004 9105	DIODE DSF10C-BT	1
D412	407 004 9105	DIODE DSF10C-BT	1
D413	407 004 9105	DIODE DSF10C-BT	1
D414	407 004 9105	DIODE DSF10C-BT	1
D415	407 004 9105	DIODE DSF10C-BT	1
D417	407 004 9105	DIODE DSF10C-BT	1
D418	407 004 9105	DIODE DSF10C-BT	1
D419	407 049 6305	ZENER DIODE GZA12Y-BT	1
D420	407 049 6305	ZENER DIODE GZA12Y-BT	1
C403	403 085 7603	NP-ELECT 10U M 25V	1
C404	403 044 8207	ELECT 10U M 25V	1
C405	403 047 1502	ELECT 4.7U M 25V	1
C406	403 097 6700	ELECT 330U M 50V	1
C407	403 050 1209	ELECT 2.2U M 50V	1
C408	403 050 1209	ELECT 2.2U M 50V	1
C409	403 039 7901	ELECT 100U M 10V	1
C410	403 039 7901	ELECT 100U M 10V	1
C411	403 054 1304	ELECT 47U M 35V	1
C412	403 054 1304	ELECT 47U M 35V	1
C413	403 063 0503	POLYESTER 6800P K 50V	1
C414	403 063 0503	POLYESTER 6800P K 50V	1
C415	403 085 7603	NP-ELECT 10U M 25V	1
C416	403 049 5508	ELECT 10U M 50V	1
C418	403 049 5508	ELECT 10U M 50V	1
C419	403 049 7304	ELECT 100U M 50V	1
C421	403 057 3602	POLYESTER 0.1U K 50V	1
C422	403 057 3602	POLYESTER 0.1U K 50V	1
C423	403 070 4709	CERAMIC 1200P K 50V	1
C424	403 070 4709	CERAMIC 1200P K 50V	1
C425	403 069 8404	CERAMIC 0.01U Z 50V	1
C426	403 069 8404	CERAMIC 0.01U Z 50V	1
C427	404 012 6102	ELECT 4700U M 50V	1
C428	404 012 6102	ELECT 4700U M 50V	1
C429	404 012 7000	CERAMIC 0.01U P 500V	1
C430	404 012 7000	CERAMIC 0.01U P 500V	1
C431	404 012 7000	CERAMIC 0.01U P 500V	1
C432	404 012 7000	CERAMIC 0.01U P 500V	1
C433	403 069 8404	CERAMIC 0.01U Z 50V	1
C434	403 069 8404	CERAMIC 0.01U Z 50V	1
C435	403 069 8404	CERAMIC 0.01U Z 50V	1
C436	403 069 8404	CERAMIC 0.01U Z 50V	1
C437	403 047 6309	ELECT 470U M 25V	1
C438	403 047 1502	ELECT 4.7U M 25V	1
C439	403 047 1502	ELECT 4.7U M 25V	1
C440	403 044 8207	ELECT 10U M 25V	1
C441	403 044 8207	ELECT 10U M 25V	1
C442	403 041 3304	ELECT 47U M 10V	1
C443	403 044 8207	ELECT 10U M 25V	1
C444⚠	620 006 6679	Capacitor 0.01MF400V	1
C445	403 045 2907	ELECT 1000U M 25V	1
C446	403 069 8404	CERAMIC 0.01U Z 50V	1
C447	403 069 8404	CERAMIC 0.01U Z 50V	1
C448	403 069 8404	CERAMIC 0.01U Z 50V	1
C449	403 069 8404	CERAMIC 0.01U Z 50V	1
C450	403 044 8207	ELECT 10U M 25V	1
C451	403 044 0300	ELECT 47U M 16V	1
C452	403 044 8207	ELECT 10U M 25V	1
C453	403 042 9008	ELECT 22U M 16V	1
C455	403 071 6207	CERAMIC 220P K 50V	1
C456	403 071 6207	CERAMIC 220P K 50V	1
C457	403 073 7004	CERAMIC 470P K 50V	1
C458	403 073 7004	CERAMIC 470P K 50V	1
C459	403 069 8404	CERAMIC 0.01U Z 50V	1
C460	403 069 8404	CERAMIC 0.01U Z 50V	1
R401	401 025 7805	CARBON 2.2K JA 1/6W	1
R402	401 025 7805	CARBON 2.2K JA 1/6W	1
R403	401 025 1902	CARBON 15K JA 1/6W	1
R404	401 025 1902	CARBON 15K JA 1/6W	1
R405	401 019 3004	CARBON 39K JA 1/4W	1
R406	401 024 7400	CARBON 10K JA 1/6W	1
R407	401 024 7707	CARBON 100K JA 1/6W	1
R408	401 027 3003	CARBON 56K JA 1/6W	1
R409	401 027 0309	CARBON 47K JA 1/6W	1
R410	401 026 9600	CARBON 470 JA 1/6W	1
R411	401 027 0309	CARBON 47K JA 1/6W	1
R412	401 024 7707	CARBON 100K JA 1/6W	1
R413	401 027 3003	CARBON 56K JA 1/6W	1
R414	401 027 3003	CARBON 56K JA 1/6W	1
R415	401 027 5205	CARBON 680 JA 1/6W	1
R416	401 027 5205	CARBON 680 JA 1/6W	1
R417	401 021 4105	CARBON 56K JA 1/4W	1
R418	401 021 4105	CARBON 56K JA 1/4W	1
R419	401 027 9005	CARBON 82K JA 1/6W	1
R420	401 027 9005	CARBON 82K JA 1/6W	1
R421	401 085 6008	OXIDE-MT 3.3K JB 1/2W	1
R422	401 085 6008	OXIDE-MT 3.3K JB 1/2W	1
R423	401 085 6008	OXIDE-MT 3.3K JB 1/2W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description		Q'ty
R424	401 085 6008	OXIDE-MT	3.3K JB 1/2W	1
R425	402 016 4605	FUSIBLE RES	100 J- 1/2W	1
R426	402 016 4605	FUSIBLE RES	100 J- 1/2W	1
R427	401 056 4002	OXIDE-MT	4.7K JA 1/2W	1
R428	401 012 5708	CARBON	1K JA 1/4W	1
R429	401 026 7408	CARBON	39K JA 1/6W	1
R430	401 024 7400	CARBON	10K JA 1/6W	1
R431	401 025 4606	CARBON	18K JA 1/6W	1
R432	401 025 4606	CARBON	18K JA 1/6W	1
R433	401 054 8200	OXIDE-MT	100 JA 1/2W	1
R434	401 054 8200	OXIDE-MT	100 JA 1/2W	1
R435	402 016 4506	FUSIBLE RES	10 J- 1/2W	1
R436	402 016 4506	FUSIBLE RES	10 J- 1/2W	1
R437	402 016 4605	FUSIBLE RES	100 J- 1/2W	1
R438	402 016 4605	FUSIBLE RES	100 J- 1/2W	1
R439	401 026 9600	CARBON	470 JA 1/6W	1
R440	402 016 4506	FUSIBLE RES	10 J- 1/2W	1
R441	401 027 5205	CARBON	680 JA 1/6W	1
R442	401 014 5201	CARBON	15K JA 1/4W	1
R443	402 016 5404	FUSIBLE RES	4.7 J- 1/2W	1
R444	402 016 5404	FUSIBLE RES	4.7 J- 1/2W	1
R445	401 012 5708	CARBON	1K JA 1/4W	1
R446	401 024 7400	CARBON	10K JA 1/6W	1
R447	401 024 7400	CARBON	10K JA 1/6W	1
R448	402 035 7700	FUSIBLE RES	0.47 JA 1/4W	1
HEADPHONE P.C.B. ASSY				
68	620 190 9999	Headphone P.C.B. Assy		1
CA101	620 020 2428	Connector 5P Assy		1
JK601	620 018 0443	Jack 7P (PHONES)		1
C601	403 071 5903	CERAMIC	220P K 50V	1
C602	403 071 5903	CERAMIC	220P K 50V	1
R601	401 060 7501	OXIDE-MT	270 JB 1W	1
R602	401 060 7501	OXIDE-MT	270 JB 1W	1
R603	401 055 1804	OXIDE-MT	150 JB 1/2W	1
R604	401 055 1804	OXIDE-MT	150 JB 1/2W	1
MECHA P.C.B. ASSY				
142	620 191 0001	Mecha P.C.B. Assy		1
CA107	620 020 0813	Connector 8P Assy		1
S701	620 016 2159	Leaf Switch (REC Switch)		1
VR701	620 004 6800	Semi Fixed (B-5kΩ)		1
Q701	405 019 2708	TR 2SC536-F-NP		1
or	405 019 3804	TR 2SC536-G-NP		1
R701	401 025 7409	CARBON	220 JA 1/6W	1
R702	401 026 0607	CARBON	270 JA 1/6W	1
R703	620 004 5339	LT Resistor 470		1
R704	401 025 8208	CARBON	22K JA 1/6W	1

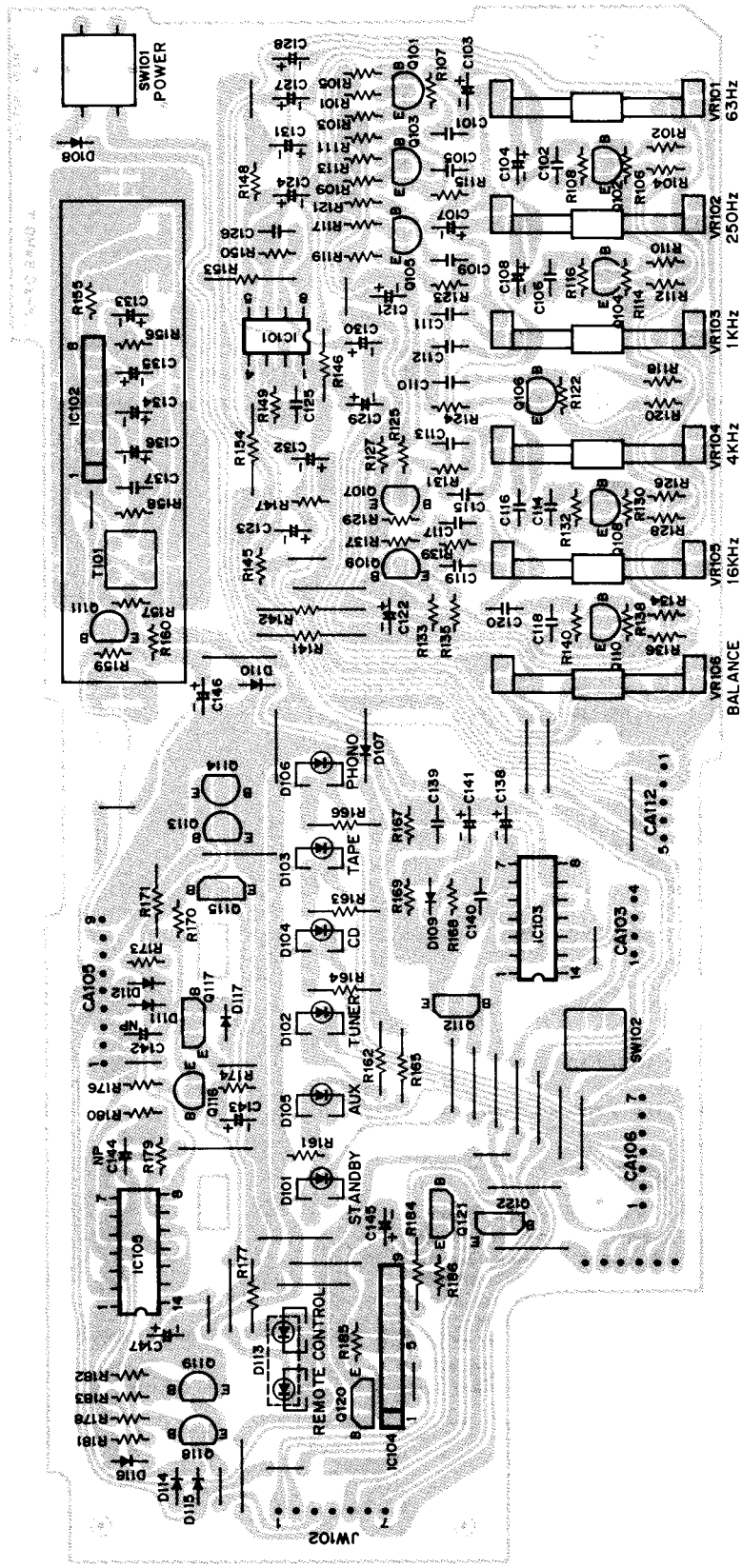
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

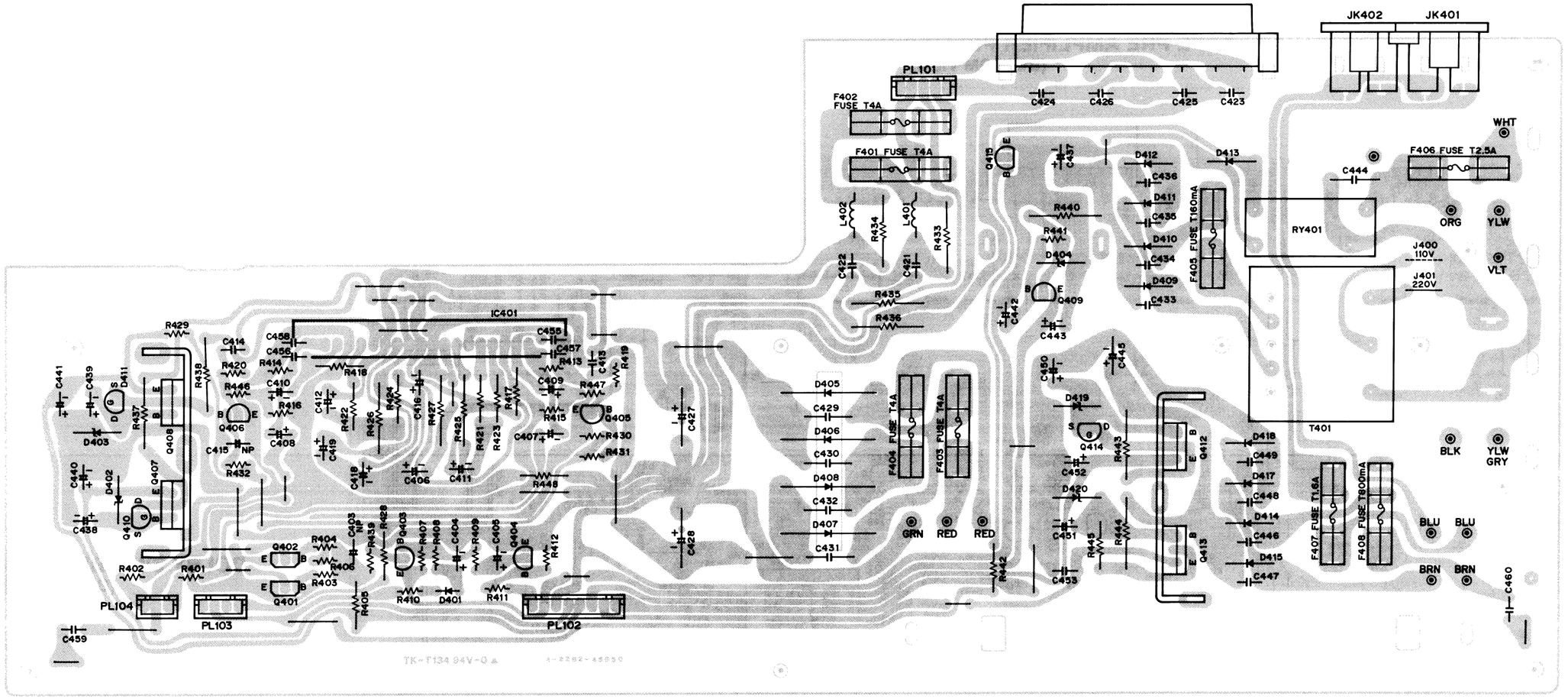
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

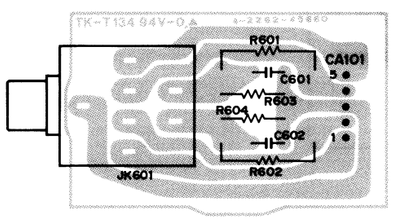
FRONT CONTROL PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



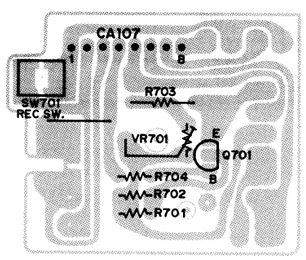
POWER AMPLIFIER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



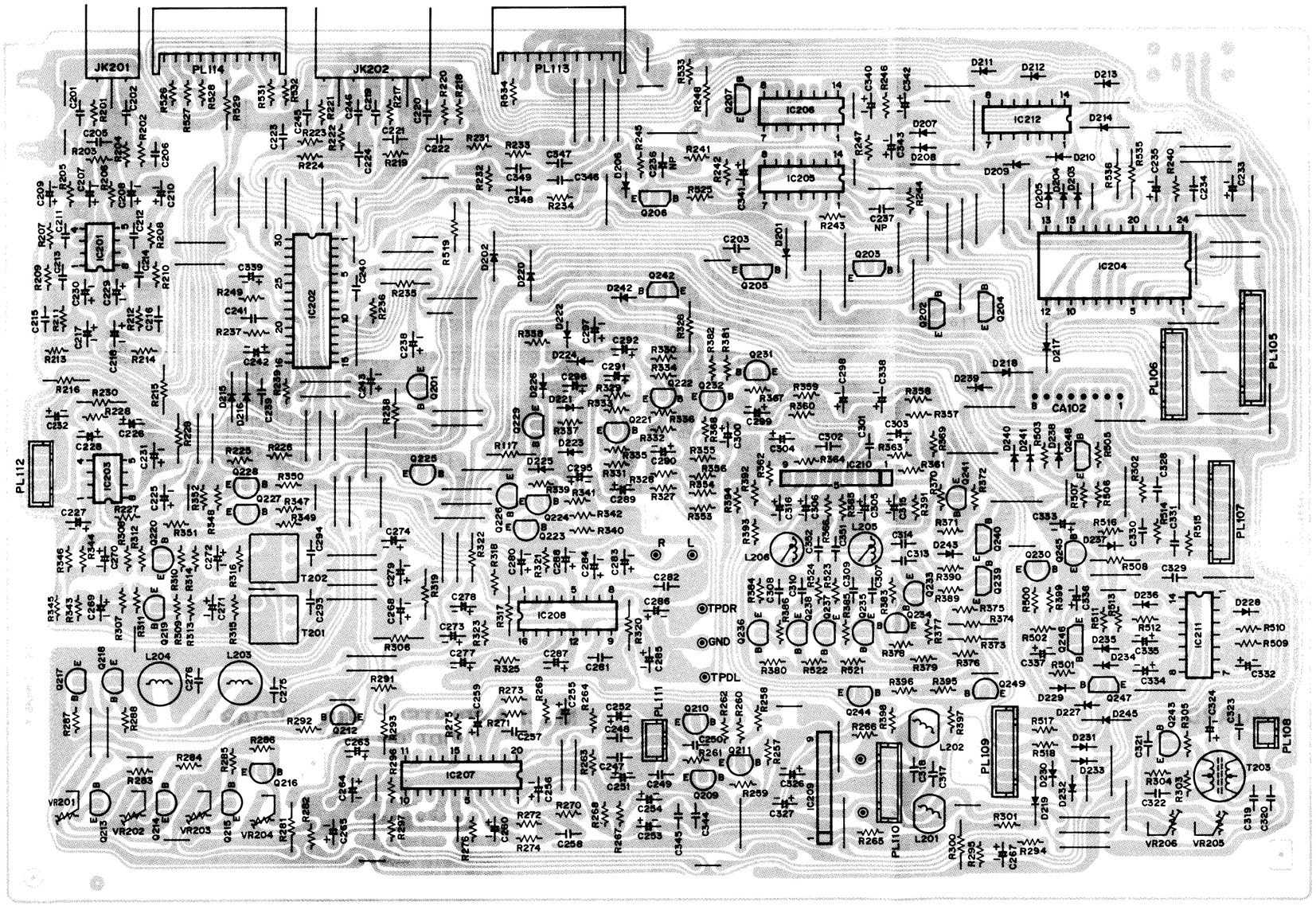
HEADPHONE PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



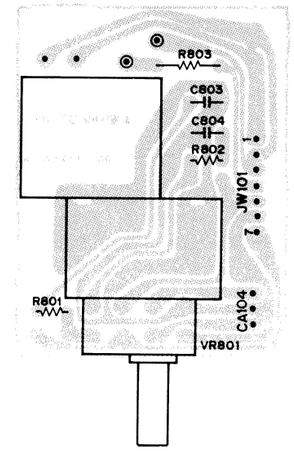
MECHA PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



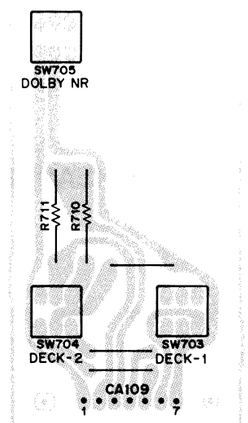
TAPE PRE AMPLIFIER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



VOLUME PRINTED CIRCUIT BOARD
(BOTTOM VIEW)

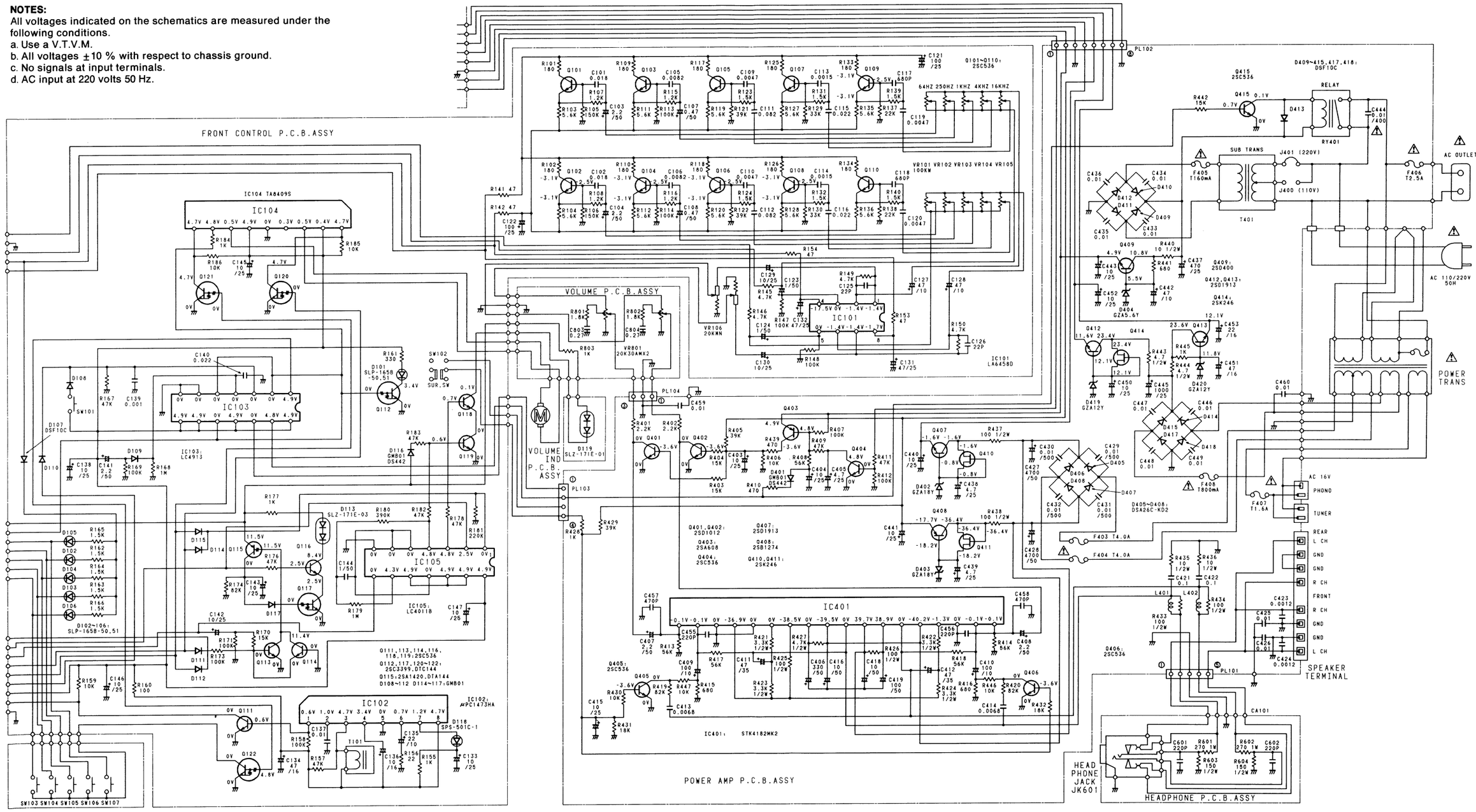


DOLBY SW. PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



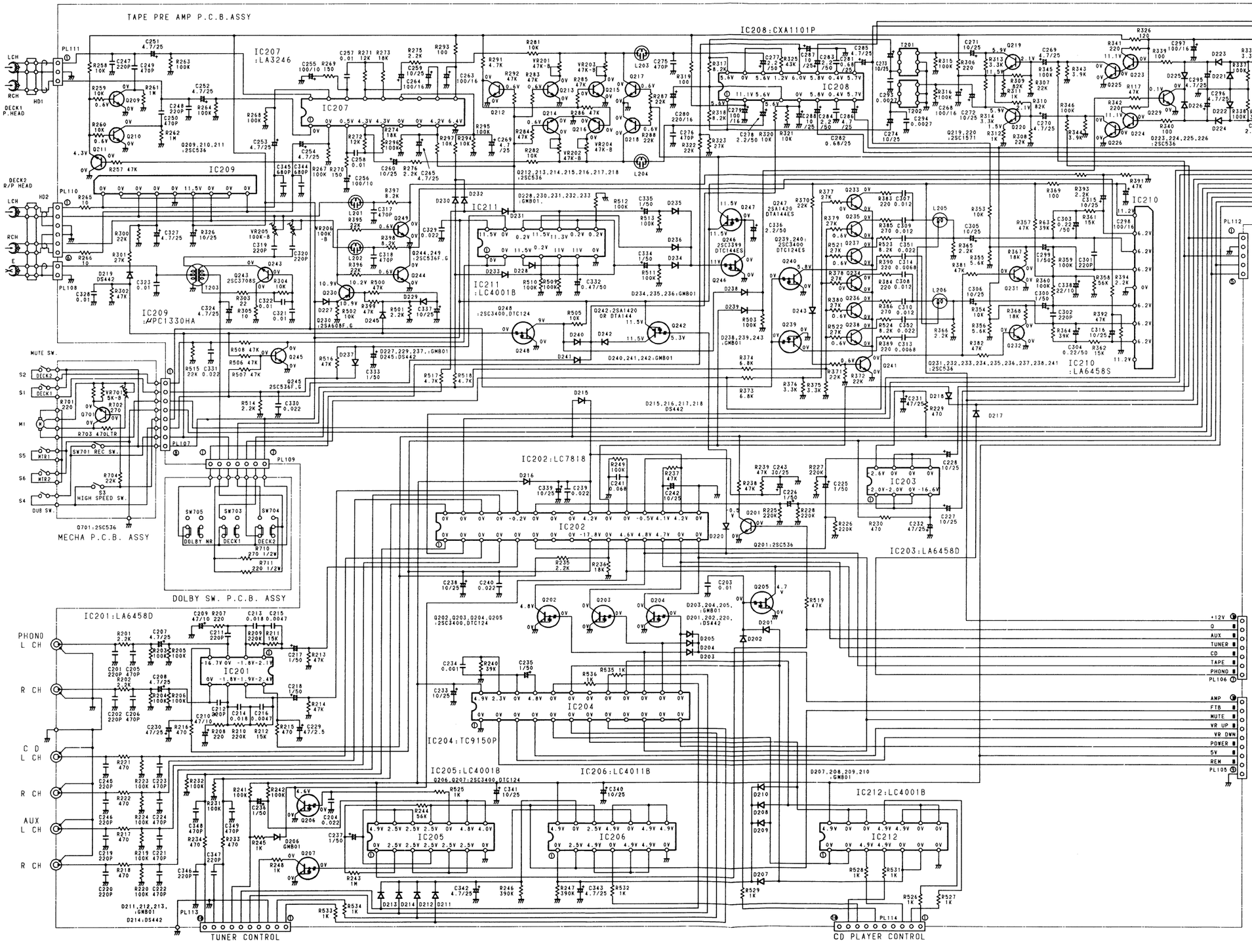
SCHEMATIC DIAGRAM 1

NOTES:
All voltages indicated on the schematics are measured under the following conditions.
a. Use a V.T.V.M.
b. All voltages ±10 % with respect to chassis ground.
c. No signals at input terminals.
d. AC input at 220 volts 50 Hz.

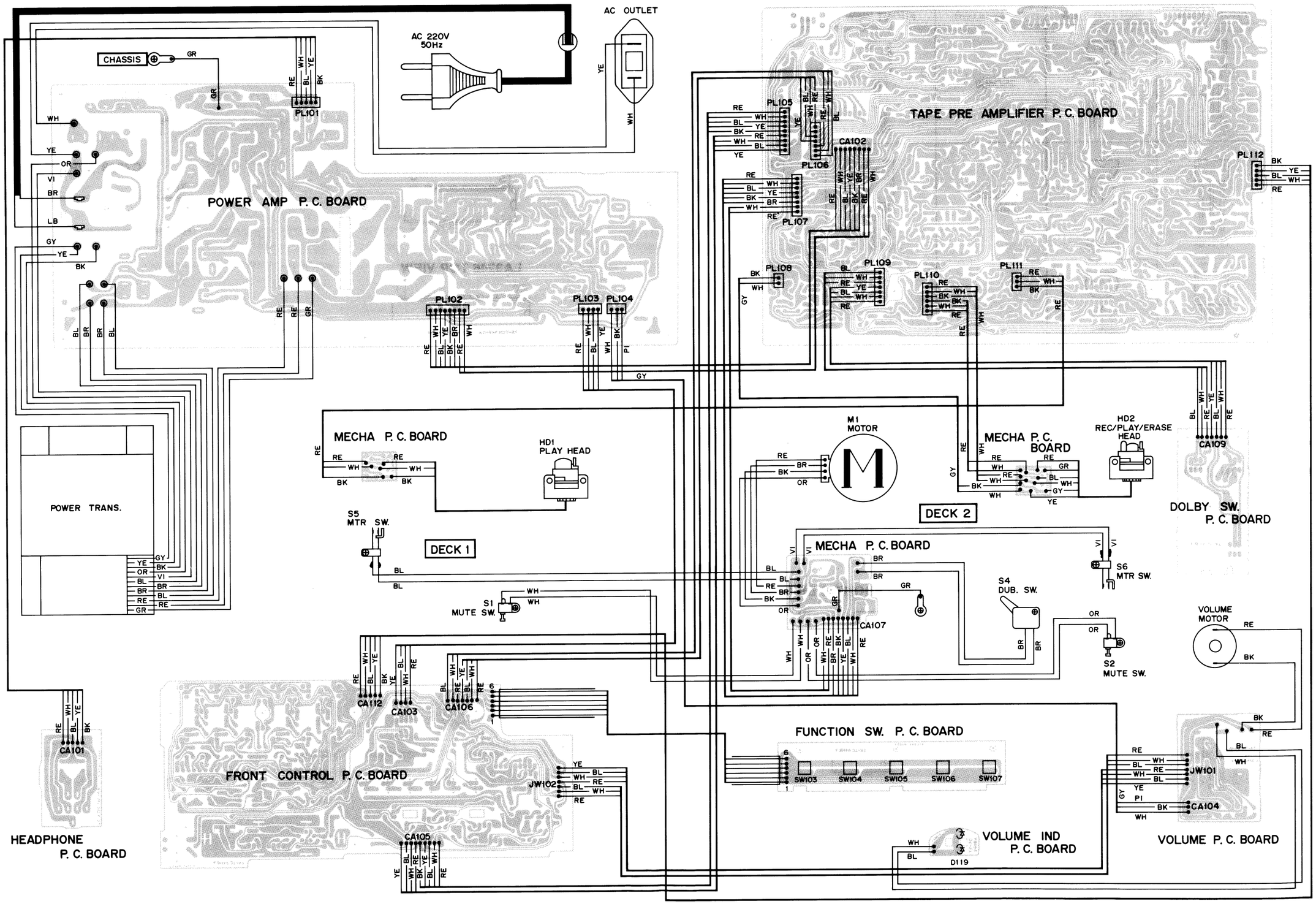


NOTES:
1. All resistors values are indicated in "ohm" (K = 10^3, M = 10^6).
2. All capacitors values are indicated in "μF" (P = 10^{-12}).
3. This is a basic schematic diagram.

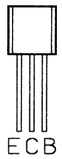
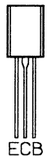
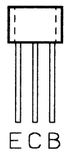
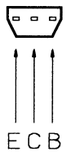
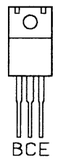
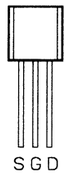
SCHEMATIC DIAGRAM 2



POINT TO POINT WIRING DIAGRAM



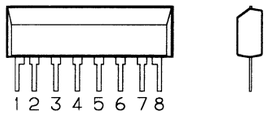
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA1420 2SA608 2SC1571 2SC3708 2SC536			2SD400		
2SA608 2SC3399 2SC3400 2SD1012			2SB1274 2SD1913		
2SK246					

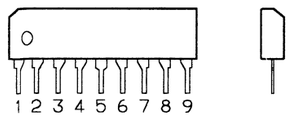
TERMINAL NAME

B → BASE
C → COLLECTOR
E → EMITTER
S → SOURCE
G → GATE
D → DRAIN

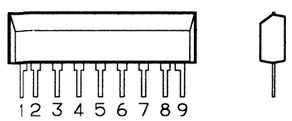
UPC1473HA FRONT/SIDE VIEWS



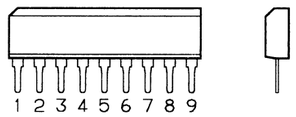
LA6458S FRONT/SIDE VIEWS



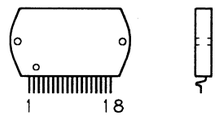
UPC1330HA FRONT/SIDE VIEWS



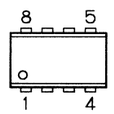
TA8409S FRONT/SIDE VIEWS



STK4182MK2 FRONT/SIDE VIEWS

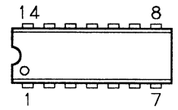


LA6458D TOP VIEW

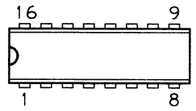


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

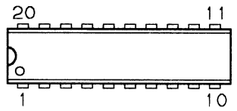
LC4001B TOP VIEW
LC4011B TOP VIEW
LC4913 TOP VIEW



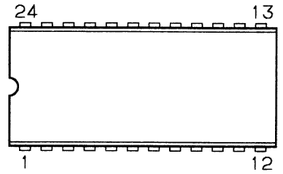
CXA1101P TOP VIEW



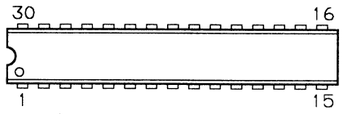
LA3246 TOP VIEW



TC9150P TOP VIEW



LC7818 TOP VIEW



IMPORTANT NOTE

The unit has been Factory-adjusted for operation on 220V AC. The voltage can be changed for operation on 110V AC by making the following changes on the unit inside.

1. Remove the AC plug from the wall outlet.
2. Remove the screws securing the cover.
3. Disconnect the Gray lead from the Trans, and connect the Gray lead to the terminal connected by Orange lead.
4. Disconnect the Yellow lead from the Trans, and connect the Yellow lead to the terminal connected by Black lead.
5. Disconnect the Jumper lead (J401) from Power AMP P.C.Board, and then connect the Jumper lead (J400) to Power AMP P.C.Board.

The unit in now ready 110V operation. DO NOT attempt to operate the unit on 220V.
Damage will result !

Bezeichnung/Description
SERVICE MANUAL
Teile-Nr./Parts No.
WM570055
Menge/Quantity
1
Lagerort
31D03
LS-Nr.
693361 / 58
SANYO FISHER Vertriebs GmbH

FISHER

FISHER Hi-Fi Europa Vertriebs GmbH

Stahlgruberring 4
8000 München 82

Tel: 089/420 45-0
Tlx: 524033

Technisches Labor/ Qualitätskontrolle	Durchwahl -120/121
Funkstörmeßlabor	-127/128
Service-Zentrale	
Color TV	-166
Hi-Fi/Audio	-168
Video	-172
Autoradio	-170
Ersatzteillager	-155/156
Techn. Schulung	-174

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Senden Sie uns im Garantiefall die ausgefüllte Garantiekarte ein. Bei unverkauften Lagergeräten des Fachhandels gilt als Garantienachweis eine eidesstattliche Versicherung mit eingetragener Modellbezeichnung und Geräte-Nummer oder ein Liefernachweis. Die gleiche Regelung besteht auch für Reparaturaufträge.
Bitte geben Sie unbedingt die Ersatzteil-Nummer und die Modellbezeichnung an.
Sie sparen so wertvolle Zeit. Vielen Dank.

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